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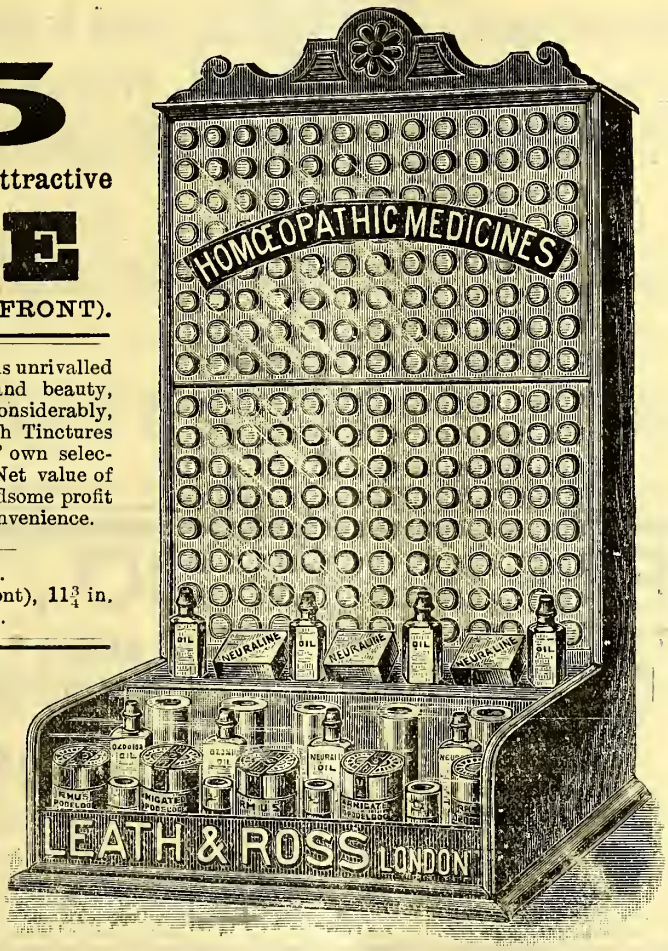

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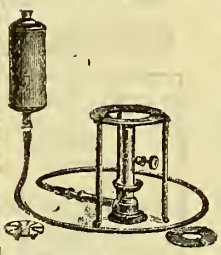

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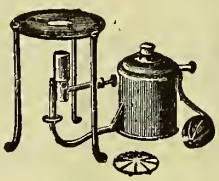

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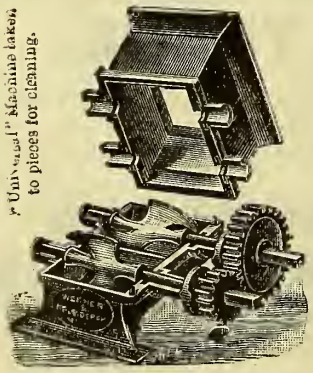

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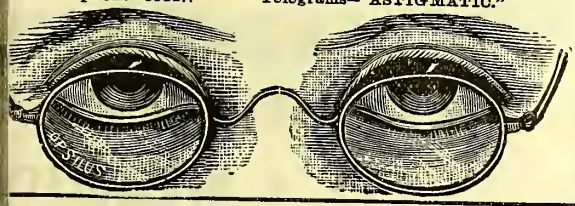

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They are Non-Poisonous, and are a Sure Preventive against the Ravages of Moths, Gnats, Flies, and other Insects in Clothes, Rugs, Carpets, Furs, Furniture, &c., &c.

Procurable through all Wholesale Houses, or direct from the Sole Manufacturers,

FLEMING'S OIL & CHEMICAL CO., LIM.
101 LEADENHALL STREET, LONDON. E.C.

OIL OF
EUCALYPTUS
GLOBULUS
"PLATYPUS BRAND"

TASMANIAN EUCALYPTUS OIL CO.

138 LEADENHALL STREET, LONDON, E.C., and HOBART, TASMANIA.

25-LB. TINS. 2 TINS IN CASE.

THE CHEMIST AND DRUGGIST says:—

"The oil is free from low-boiling terpenes, has a specific gravity of 0·9075, and has a delightful odour."

KANGAROO
EUCALYPTUS OIL

Is admitted to be the Purest Eucalyptus Oil yet introduced to the public. To be obtained of your Wholesale Druggist.

SOLE CONSIGNEES—
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COLONIAL ADDRESS—
A. M. BICKFORD & SONS, Wholesale Druggists 46 Currie Street, ADELAIDE.

CHEMISTS

SHOULD RECOMMEND TO THEIR CUSTOMERS AS A

CERTAIN

INFLUENZA

PREVENTIVE,

THE

C.A.M.W.A.L

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QUININE

LEMONADE.

QUININE is universally accepted as the Best Preventive during epidemics of Influenza, and is generally prescribed by the Medical Profession for this disease.

This Lemonade contains Quinine, is a pleasant and palatable beverage, and may be taken daily as an ordinary Lemonade.

In Syphons, 3/- per dozen.

In Bottles, 1/3 per dozen.

PREPARED BY THE

Chemists' Aerated & Mineral Waters Association

"CAMWAL," LIMITED,

LONDON, BRISTOL, HARROGATE, AND MITCHAM.

BARNETT & FOSTER,

MANUFACTURERS.

THE "COMPACT" CONTINUOUS ACTION

SODA-WATER MACHINE.

For use with the Liquified Carbonic Acid Gas.

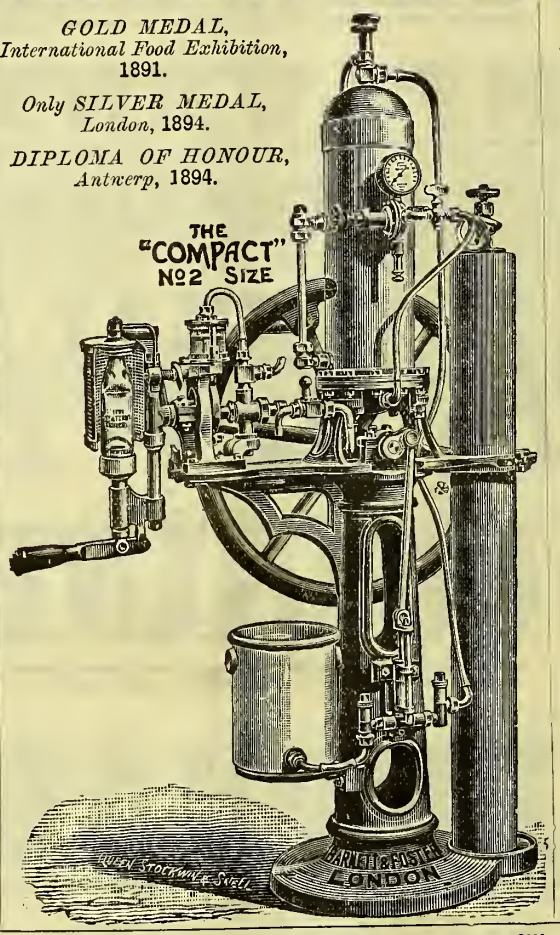
Specially designed for use where space is an object, and for those having a large retail trade, such as Chemists, Hospitals, Restaurateurs, Hotel Proprietors, &c. They are ready for work immediately, require no fixing, and produce Aërated Waters of the very highest quality at a minimum of cost.

NO DANGER.
NO MESS.
PERFECTLY RELIABLE.

GOLD MEDAL, International Food Exhibition, 1891.

Only SILVER MEDAL, London, 1894.

DIPLOMA OF HONOUR, Antwerp, 1894.



We guarantee to produce a better article with these than any other system adapted for using the Liquefied gas, and at a lower pressure, thus effecting an immense saving in bottles, and also reducing risk of accidents.

In use by Leading Chemists in all parts of the United Kingdom.

TWO FILLERS INCLUDED.

No. 1 Size, complete with Turnover and Syphon-filling Machine, and fitted with fast and loose Pulleys for driving by power ... Code word (*Supremacy*) **£60**
Producing Capacity by Hand-power 600 dozen per day.
" " Power 1,200 " "

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Producing Capacity by Hand-power 200 dozen per day.

Syrup Pump fitted to the Turnover Filling Machine on either of above (*Injecto*) £2 extra. If fitted with one Filling Machine only, the two largest Machines are charged £3 less than above prices.

SOLE INVENTORS AND MANUFACTURERS OF THE

"NIAGARA" BOTTLE AND THE LONDON-MADE SYPHON

KNOWN ALL OVER THE WORLD.

Illustrated Descriptive Catalogue of every requirement for the Mineral Water Trade on application.

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DAN RYLANDS, LIMITED.

Glass Bottle Manufacturers, Box and Case Makers, Soda-water Machinery Engineers, and General Providers to the Mineral Water Trade.

GLASS BOTTLE DEPARTMENT.

We have had over Twenty Years' experience in the making of Globe Stoppered Bottles, and have manufactured more than all other firms in the World put together. Rylands' "Valve," "Reliance," "Acme," and "Original No. 4," are the leading Bottles in the Trade. All our Bottles are made with a patent tool of which we are the Sole Owners, and the grooves produced therewith will be found the most reliable in the market. All Buyers should see that the name of "DAN RYLANDS" and a figure 4 are stamped upon each bottle, in order to ensure our special manufacture and extra strength of glass. The names of our various shapes of Globe-stoppered Bottles are also registered, and should be used by buyers when placing their orders.

Our Syphon Bottles are of the very first quality, with pure block-tin Tops and strong brilliant, pressure-resisting glass, elegant in appearance, and of simple construction. All kinds of screw-mouth and cork bottles for the aërated-water trade.

Our patent machine-made "Climax" and other Bottles are accurately made and specially designed for Preserves, Pickles, Confectionery, and for all purposes to which wide-mouth Glass Vessels can be applied.

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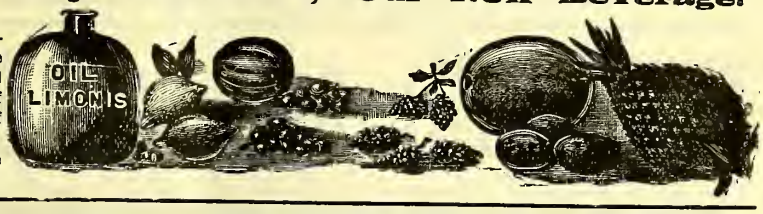
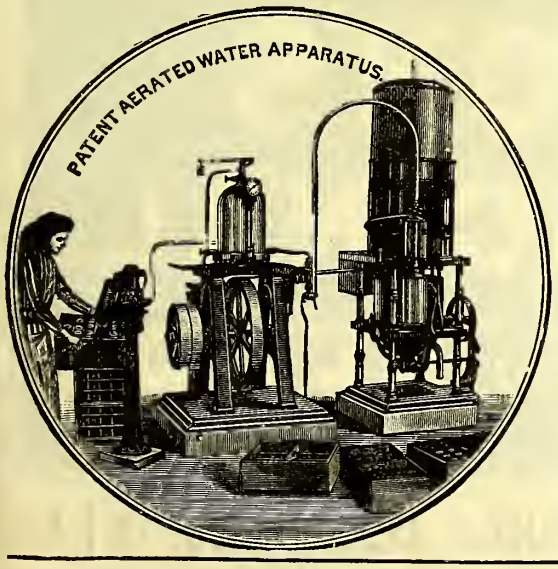
Our Essences, Tinctures, and other ingredients are prepared by the Standard Essence Co., for whom we are sole agents. Their superior preparations are produced by a process which preserves the full natural aroma of the Fruits. These essences are highly concentrated, of exquisite flavour, and absolutely pure.

Essential Oil of Lemon, Acids, and Colourings of the finest quality and at moderate prices.

Try "MELOKA," Our New Beverage.





SODA-WATER MACHINERY DEPARTMENT.

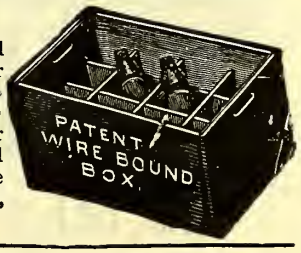
This Machinery possesses exceptional merits. The Aërated Waters it produces may be relied upon for uniformity of quality, and as regards economy our Patent Plants eclipse all others. They save materials, power, space, labour, time, and money.

We are also supplying our Patent Machines adapted for using Liquefied Carbonic Acid Gas, to all who prefer this system of Aërated Water making. They are strong, simple, easily managed, and reliable. Pure Compressed Carbonic Acid Gas supplied.

Our Filling Machines are the most popular and leading fillers in the market. All kinds, for hand or power, for corks or patents. Of our Paragon Fillers there have been **nearly 5,000 sold.**

BOX DEPARTMENT.

Our Patent Wire-Bound and "Dino" Boxes are far superior to hoop-ironed boxes, which catch and drag against everything they come in contact with. In our boxes, the wire is well protected from wet and rust, and these boxes are the strongest, lightest, and neatest in the trade.



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DAN RYLANDS, LIMITED, BARNSLEY, ENGLAND

VINACOCA.

Sold in Bottles at 3s. 6d. each, or 40s. per dozen, Retail.

ALSO

COCA LIQUEUR

The best Restorative is
ROLLAND'S COCA LIQUEUR.
The best Nerve Tonic is
ROLLAND'S COCA LIQUEUR.
The best Renewer of Health is
ROLLAND'S COCA LIQUEUR.

Sold in Fancy Wickered Bottles, 7s. 6d. each, Retail.

COCA is prepared in various forms: COCA WINE, COCA LIQUEUR, COCA LOZENGES, COCA TABLETS, COCA ELIXIR, COCA TEA, COCA CHOCOLATE, COCA TOBACCO, &c.

Sole Proprietors of

THE PARISIAN VAPORISER & EAU DE LIS.

Price 15s. each; Eau de Lis 2s. 6d. per bottle.

Usual Trade Discount. Pamphlets for distribution, carriage paid.

FULL PARTICULARS FROM

THE FRENCH HYGIENIC SOCIETY, 6 CONDUIT STREET, REGENT STREET, **LONDON, W.**

IMITATED BUT NOT EQUALLED!!

MASON'S IS THE ORIGINAL EXTRACT OF HERBS

No other Extract makes Beer like it!!

INVENTORS AND MANUFACTURERS—

NEWBALL & MASON, NOTTINGHAM.

HALL'S COCA WINE

3/6 Size - 26/- per Case (1 doz.)
2/0 Size - 30/- per Case (2 doz.)

Can be obtained through the Wholesale Houses, or from the Proprietors,

STEPHEN SMITH & CO., BOW, LONDON.

"LAURENT-PERRIER ET CIE."
COCA-TONIC CHAMPAGNE.
WINE GROWERS, BOUZY-REIMS.

SUGAR FREE.

Carefully Standardised.

Prepared by Actual Champagne Growers.

Prescribed as the Best Restorative Tonic for Influenza, and in cases of Insomnia, Neurasthenia, etc.

In Bottles, 2/- and 3/9.

Full Particulars of HERTZ & COLLINGWOOD, 4 SUSSEX PLACE, LONDON, E.C.

ORANGE QUININE WINE.

When made with **Dowden's Seville Orange Wine** (detannated), this article no longer gives either trouble or unsatisfactory results. The Quinine should be added in the usual way, in any convenient closed vessel, and allowed to settle a few days, when the wine will be found **Brilliant** without filtration, and will so remain permanently after bottling. See opinion of Editor of The Chemist and Druggist in Winter Issue, page 150.

Ask for Samples and state quantity to quote for.

DOWDEN'S ORANGE WINE.

DOWDEN & CO., Limited, ST. PAUL'S DISTILLERY, BOURNEMOUTH.

ROBINSON'S
LIEBIG'S BEEF WINE.

Composed of Liebig's Extract of Beef, Extract of Malt, and sound Port Wine.

REPORT ON BEEF WINES.

From the results of my Analyses of various **Beef Wines** I have had occasion to examine, none have **equalled** as regards strength, purity of ingredients, and (of no less importance) the skilful and judicious manner in which the respective ingredients have been proportioned and combined, the Liebig's Beef Wine manufactured by Mr. B. Robinson, of Pendleton, Manchester.

It is in every sense a reliable preparation, embodying in a pleasing and palatable form all the acknowledged medicinal and nutritive properties pertaining to **Liebig's Extract of Meat, Extract of Malt, and sound Port Wine.**

WILLIAM ELBORNE, F.C.S., F.L.S.,
Lecturer on Materia Medica in the Owens College, Manchester (Victoria University).
December 15, 1888.

Introduced 1855.] **ROBINSON'S CONCENTRATED WATERS.** [Introduced 1855.

One ounce of these Waters added to Forty Ounces of Distilled Water forms a clear Medicated Water (without filtering), similar in every respect to those prepared according to the directions of the British Pharmacopœia, and free from all Chemical impurity. They will keep good any length of time in any climate.

Aqua Anethi. Concent.,	4/ lb.	Aqua Cinnam. Ver., Concent.,	6/ lb.	Aqua Fœniculi, Concent.,	4/ lb.	Aqua Pimentæ, Concent.,	4/ lb.
" Anisi "	4/ "	" Cassiæ "	4/ "	" Menth. Pip. "	4/ "	" Rosæ "	8/6 "
" Camphoræ "	4/ "	" Flor. Aurant. "	8/6 "	" " Ang. "	6/ "	" Rosæ Virgin "	10/6 "
" Carui "	4/ "	" Flor. Sambuci "	8/6 "	" " Virid. "	4/ "		

The above are put up in Bottles of ½ lb. or 1 lb. and upwards, each of which has the Inventor's Protection Label over Cork.

From the LANCET, *July* 15, 1882:—"CONCENTRATED WATERS (Robinson's, Pendleton, Manchester).—Among the samples sent to us, we find Aq. Anethi, Anisi, Cinnam. Ver., Rosæ, and some dozen of others. Diluted with forty parts of water they form the ordinary waters of the Pharmacopœia. They are *excellent in quality*, and will be very useful, especially in country practice." [1]

Wholesale Agents: HEARON & Co., London, and most Provincial Wholesale Druggists. PREPARED BY THE INVENTOR—
B. ROBINSON, MANUFACTURING CHEMIST, DISTILLER, AND BREWER OF BRITISH WINES, MANCHESTER.

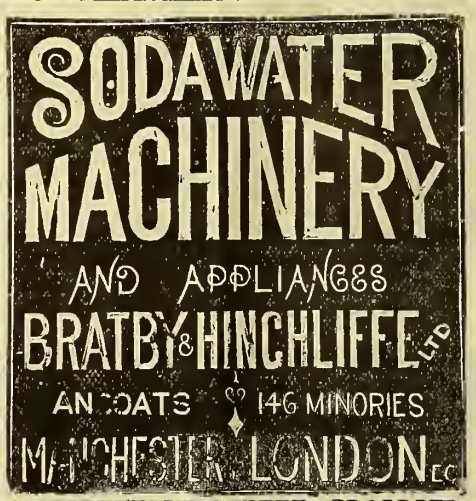
A. MILLAR & CO., LTD., DUBLIN.

PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.

SYPHONS | SELTZOGENES

Messrs. J. BARRE JOHNSTONE & CO., 20 Loftus St., Sydney, N.S.W. Agents for New South Wales, Queensland, and New Zealand.



81 ROBERTSON STREET, GLASGOW.

PRICES.

SYPHONS — 1/6 1/8 and 1/10 each.

SELTZOGENES.

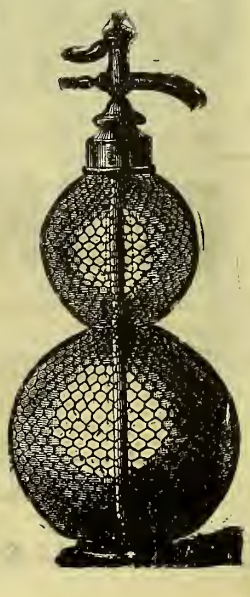
1	2	3	4	5	8 pint.
6/-	6/8	7/6	8/6	10/5	16/- each.

Including two funnels and stopper for charging.

The tops of these Seltzogenes are made of pure block tin, guaranteed.

Messrs. NOYES BROS., 43 Queen Street, Melbourne, Victoria. Agents for Victoria, South and West Australia, and Tasmania.

All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.



PETER TYRER'S SAUCES

WORCESTER, READING, HARVIE, YORKSHIRE, AND "BOROUGH" KETCHUP.

SILVER MEDAL.

	Per gross.	Extra quality.
1d. Sample Bottlee, dozen parcels	5/3	6/3
" " ½-gross boxes	5/9	6/9
1d. Giant " dozen parcels	6/-	8/8
" " ½-gross boxes	6/6	9/-

	Per gross.	Extra quality
½ Bottles, flat or round, reputed half-pinte	16/-	26/-
¾ " " " pints	26/-	38/-
1 Pint Imperial, round stoppered bottles	£2/-	62/-
12½-Gallon Casks (*casks free*) each	20/-	52/-

ROYAL CAFE SAUCE, a Rich Fruity and Exquisite Flavour.

Square Glass Stoppered Bottles, containing nearly ½-pint Imperial, 42/- per gross. Sample Bottles at 7/- per gross.

MANUFACTORY — 30 SOUTHALL PLACE, LONG LANE, BOROUGH, LONDON, S.E.

CHIEF SCOTCH AGENCY — West Nile Street, GLASGOW.

BRAND & CO.'S MEAT JUICE.

IN BOTTLES,

Price 28/- per dozen,

Less the usual discount.

To H.R.H. The Prince of Wales, The Empress of Germany, &c.

A PROFITABLE EXTRA

Wholesale only: 42 MINCING LANE, LONDON, E.C.
For Wholesale Terms and Agency apply to

PEARSE & MEEKING, Wholesale Tea Dealers,
42 MINCING LANE, LONDON.

BOVRIL

THE VITAL PRINCIPLE OF PRIME OX BEEF, IS 50 TIMES MORE NOURISHING THAN ORDINARY EXTRACT OF MEAT OR HOME-MADE BEEF TEA.

BARON LEIBIG discovered and publicly avowed the unsuitableness of Meat Essences, Meat Extracts, and home-made Beef Tea as resuscitating agents or as food in any direct sense.

BOVRIL was introduced to supply the nourishment so conspicuously absent in these preparations, and this is secured by the introduction of albumen and fibrine (or rather the entire lean of beef) desiccated at a low temperature by special process, and subsequently pulverised to a minute degree of subdivision. By this means the entire nourishment of animal food is adapted to the feeblest and most sensitive stomach, and perfect assimilation is secured with the least possible expenditure of vital energy.

INVALID BOVRIL

Is specially prepared for use in the Sick Room. It is put up in porcelain jars and sold by chemists and druggists only; and it differs from ordinary Bovril in being more concentrated and quite devoid of seasoning.

It is the most perfect form of concentrated nourishment at present known, and is enjoyed by Invalids when ordinary food and stimulants are rejected.

BOVRIL, LTD., Food Specialists, LONDON.

Chairman—RT. HON. LORD PLAYFAIR, K.C.B., LL.D.

EIGHT PRIZE MEDALS AWARDED

GOODALL'S

HOUSEHOLD SPECIALITIES.

YORKSHIRE RELISH.

Most Delicious Sauce in the World. Bottles, 6d., 1s., & 2s. each.

GOODALL'S BAKING POWDER.

The Best in the World. 1d. packets; 6d., 1s., 2s., and 5s. Tins.

GOODALL'S EGG POWDER.

One 6d. Tin is equal to 25 Eggs. In 1d. packets; 6d., 1s., and 5s. Tins.

GOODALL'S CUSTARD POWDER.

Delicious Custards without Eggs. In Boxes, 2d., 6d., & 1s. each.

GOODALL'S BLANCMANGE POWDER

Delicious Blancmange in a Few Minutes. Boxes, 6d. and 1s. each.

GOODALL'S QUININE WINE, B.P.

Best Tonic yet Introduced. Bottles, 6d., 1s., and 2s. each.

GOODALL'S GINGER-BEER POWDER.

Makes the Best Ginger-Beer. Packets, 3d. and 6d.

GOODALL'S BRUNSWICK BLACK.

For Painting Stoves, Grates, Iron, Tin, &c. 6d. and 1s. Bottles.

GOODALL'S LAVENDER WATER.

Rich and Lasting Perfume. Bottles, 1s., 2s., and 5s. each.

GOODALL'S PLATE POWDER.

For Polishing and Cleaning all Metals. Boxes, 6d., 1s., and 2s.

GOODALL'S JELLY SQUARES.

Make a Delicious and Nutritious Jelly. In ½-pint, 1-pint, and Quart Boxes, 3d., 6d., and 1s. each.

PROPRIETORS—GOODALL, BACKHOUSE & CO., LEEDS.

PATENT MEDICINES AND

DRUGGISTS' SUNDRIES.

Monthly Price List of Patent Medicines, Druggists' Sundries, &c., will be sent post free on application to

GOODALL, BACKHOUSE & CO., LEEDS.

20

TO THE

CHEMISTS & DRUGGISTS OF GREAT BRITAIN.

TELEGRAPHIC ADDRESS: "WINCARNIS NORWICH."

Wincarnis Works,
Lower Westwick Street,
NORWICH,
December, 1887.

The Excise Authorities having created a difficulty as to the sale of Medicated Wine containing a certain percentage of alcohol, we obtained in January last, from the Inland Revenue Authorities, permission to sell our WINCARNIS,* or Liebig's Extract of Meat and Malt Wine, **WITH QUININE,** without a Wine Licence, and many Chemists not holding a Wine Licence have sold considerable quantities. In order further to meet the requirements of the trade, we have introduced a Liebig's Extract of Meat and Malt Wine, **NON**-Alcoholic, made from the juice of the Grape, Liebig's Extract of Meat, and Extract of Malt. This also can be **SOLD WITHOUT A WINE LICENCE.** Your orders will oblige either direct or through the Wholesale Houses.

Yours obediently,

COLEMAN & CO., LIMITED.

N.B.—The Wine is sold in Bottles, 2/9 and 4/6 each. Trade prices on application.

P.S.—Under certain conditions we are willing to pay for a Licence.

PARTICULARS ON APPLICATION.

SOLE MANUFACTURERS—

COLEMAN & CO., LIMITED,

WINCARNIS WORKS,
Lower Westwick St., NORWICH,
and 3 New London St., LONDON, E.C.

* WINCARNIS is a NEW NAME, registered to prevent fraudulent imitations.

PRINCE ALBERT'S CACHOUX

HIGHEST AWARD
CHICAGO EXHIBITION
1893.

These Cachoux are supplied only in Brass Boxes, of which there are three sizes.

No. 4's at 3/6 doz. (*Export*).
No. 5's at 4/- doz. (*Home Trade*).
No. 6's at 7/- doz. (*Export*).

All Labels, Titles, and Trade Marks registered in the United States, Canada, &c.

Manufactured by

THOMAS JACKSON, Strangeways, MANCHESTER.

THOS. GUEST & CO.

City Works, Carruthers St., MANCHESTER.

MAKERS OF ALL DESCRIPTIONS OF MEDICATED LOZENGES.

B.P., T.H. Ph., and General Proprietary Lozenges. Finest Gum Jujubes and Pastilles—Glycerine and Black Currant, &c. Granular and all other Effervescing Preparations. Boiled Sugars, Floral Tablets (1892).

BEFORE BUYING ANY OF THE ABOVE, PLEASE SEND FOR SAMPLES AND COMPARE.

Telephone National 235. Telegrams "GUESTO."

NESTLÉ'S FOOD

An entire Diet for Infants, Children, and Invalids.

"Renders valuable assistance in Wasting Fever."
"Beneficial as a Diet in Severe Cases of Typhoid."
"Invaluable in Cholera Infantum."

Pamphlet containing Extracts from Standard Medical Works in which the above Testimony is given sent free with Sample Tin on application to H. NESTLÉ, 48 Cannon Street, London, E.C.

The attention of the Medical Profession is also drawn to

NESTLÉ'S SWISS (CONDENSED) MILK.

Which, through its RICHNESS in CREAM and UNIFORMITY of QUALITY, has obtained the Largest Sale in Great Britain. It can be used for all purposes of FRESH MILK.

Samples to Members of the Medical Profession only, sent free on application to H. Nestlé, 48 Cannon Street, London, E.C.

EXCHANGE COLUMN.

This Section of "The Chemist and Druggist" must be closed for press by Tuesday morning's post of each week. Remittances payable to EDWARD HALSE.

FOR DISPOSAL.

Drugs and Chemicals.

Ten 1-cwt. bags creta præcip.; will accept 10*s.* cwt. to clear, either in one lot or quantity required. Apply, Sneath, Chemist, Grimsby.

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For Sale.—8 doz. 1/1½ Freeman's Chlorodyne, at 7/3 per doz.; cash with order. 231/37, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

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A large number of *Pharmaceutical Journals*, some few missing, from 1874 to the present time. Gall, 85 Arundel Street, Portsmouth.

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24-oz. W. and N. N. shop-rounds, 7*s.* doz., delivered; 12-gall. oil-tin, with brass tap, 5*s.* Smith, Market Place, Stroud.

For sale.—5 6-gallon pear-shaped carboys, 4 9-gallon cylindrical ditto, 2 4-gallon ditto; 2 specie-jars, 24 inches high; 1 handsome bent-glass showcase for counter, length 7 ft. 6 in., breadth 2 ft., height 13 in. What offers? G. Waugh & Co., 177 Regent Street, W.

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Hooper's full-sized water-bed, with central funnel; retail list price 16*l.* Offers to Hogg & Co., Hampstead.

Surplus stock.—Spanish asthma cigarettes and mixture; a special lot to clear, cheap. Offers to 226/31, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

Photographic mounts; surplus stock; cartes 5*s.*, tinted; Bristol cabinets 12*s.*, ditto, enamelled, 15*s.* per 1,000, all new; also Oxford line and plate, sunk mounts, all sizes; prices and samples free. Edward Peck, Chemist, East Dereham, Norfolk.

Specie-jar, 10*s.*; also cheap to clear, shop-rounds, 40 to 4 oz.; 23 2-quart black store-bottles with caps; drawers; square lamp for outside shop; plate-glass shelves; several years' complete and few odd numbers *The Chemist and Druggist*, the lot for 2*d.* lb.; list sent. 112 High Street, South Woolwich.

A soap-milling machine, by Beyer Frères, with four granite rollers, averaging 13 inches diameter by 2 feet long, with all driving gear complete; also a medium-size squeezing-machine, to work by power, by Beyer Frères, both very little used; a 6-gallon copper portable still, complete, quite new, cheap. Apply, Bennett, Sons & Shears (Limited), 167 Kingsland Road, London, N.E.

Test-glass and tube, complete; 12-gallon cistern, with tap; cheap. H., 321 Old Ford Road.

Tricycle, Quadrant No. 8; solid tyres; beautiful order; a splendid machine; cheap. Baxter, Bramley, Leeds.

WANTED.

Carboy, 8-gallon, cut stopper. Cullen, Chemist, Norwich.

Dental specimens for showcase; must be first class. Burch, Dentist, West Bromwich.

Two copies of Muter's "Pharmaceutical Chemistry." R. M. Stewart, Chemist, Kingsbridge.

Five-foot counter case (as fig. 5, Maw's), cheap and in good condition. Particulars to Hall, 509 Fulham Road, S.W.

Framed advertising matter, to decorate new pharmacy; prominence given to best under glass; to be sent carriage paid. Huntley, Chemist, Kidderminster.

Hargreaves' "Manual of Venereal Diseases," in good condition. State lowest price to "Alpha," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

Two 4 or 6 gallon carboys; also shop-rounds and ointment-jars, labelled, and in good condition; also good second-hand check-till; must be cheap. Reply, 230/18, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

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The typical and standard printing-out paper of the day. Prints made upon it are distinguished by their delicacy, richness of detail, and beauty of finish.

Unrivalled for excellence of quality and ease of manipulation. Gives clear whites, exquisite tone, and high gloss; will neither curl, frill, nor blister; incomparable for ease and rapidity of working. Great depth and variety of tone.

In white, pink, mauve, and pensé—the last specially recommended for export.

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Possesses all the excellent qualities and characteristics which distinguish glossy Solio, and is printed, fixed, and toned in exactly the same manner.

The tones are exceedingly delicate, ranging from warm sepia to soft black.

Great richness of detail, softness, and fidelity of gradation are obtained.

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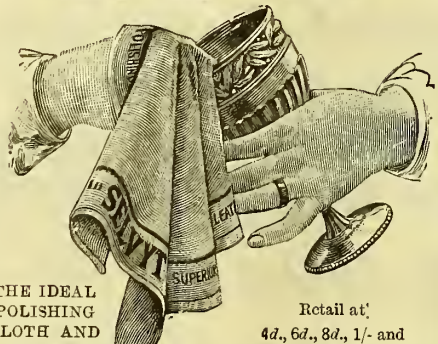

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Morrie & Callard (Salts)

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Ness & Co.
Odams' Chemical Co., Lim.
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Sanitas Co., Lim.
Seabury & Johnson
Tyrer, T., & Co. Lim.
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Barclay & Sons, Lim
Bleasdale & Co., Lim.
Chemists' Association, Lim.
Coles Pneumatic Vaccination Shield Co., Lim.
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Evans, Sons & Co. (Savars)
Feaver, J.
Fordham, W. B., & Sons, Lim.
Hatrick & Co., Lim.
Hockin, Wilson, & Co.
Hovenden & Sons
Howard, J., & Co.
Kay Bros., Lim.
Maw, S., Son & Thompson
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Newbery, F., & Sons
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Reynolds & Branson
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Sanger & Sons | Schnitzs & Co.
Tidman & Son | Toogood, W.
Tunbridge & Wright
Wood, Vincent

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Oppenheimer, Son & Co.
Phillips & Co. [(Grinders)
Richardson, J., & Co., Lim.
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Stevenson, H. E., & Co.

DYES, &c.
Crawshaw & Co.
Hatrick & Co., Ld., 'Diamond'

EAU DE COLOGNE
Farina, J. M.
Hockin, Wilson & Co.
Muhiens, F.
Van Oppen & Co.

ECZEMA
Cullwick's Skin Ointment
Cullwick's Blood Tablets

EMBROCATION
Day & Sons
Elliman, Sons & Co.
Harvey & Co.
"Rypona"
Walker's "Semotine"

ENGRAVERS
Corsan, J. R.

ESSENCES
Boulton, J. & Co., Lim.
Bovril, Lim. (Beef)
Bratby & Hinchliffe, Lim.
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Fletcher, Fletcher & Co.
Goodall, Backhouse & Co.
Idris & Co Lim.
Lorimer & Co.
May & Baker, Lim.
Newball & Mason
Rylands, Dan, Lim.
Stevenson & Howell
Tyrer, P. (Anchovies)
Tyrer, T., & Co.
Woolley, Sons & Co.

ENEMAS
Barclays, Lim.
Evans, Sons & Co.
Hatrick & Co., Lim. ("Rack")
Putney, J., & Sons
Sanger & Son | Wood, Vincent

ESSENTIAL OILS
Allen, S., & Sons
Boehm, Fredk.
Bush, W. J., & Co.
Dodge & Olcott
Drysdale, J. W., & Co.
Evans, Sons & Co.
Jakson, J., & Co.
May & Baker, Lim.
Poppelreuter, W.
Ransom, Wm., & Sons
Rylands, Dan, Lim.
Sozio & Andriolí
Spurway & Co.
Stevenson, H. E., & Co.
Stevenson & Howell
Symes & Co. | Todd, A. M.
Treatt, R. C. | Warrick Bros.
Widenmann, Broicher & Co.
Wright, Layman & Umney

ETHER
Duncan, Flockhart & Co.
Howards & Sons
Macfarlan, J. F., & Co.
May & Baker, Lim.
Robbins, J., & Co.
Tyrer, T., & Co.
White, A., & Sons
Woolley, Sons & Co.
Wright, Layman & Umney

EUCALYPTUS
Bush, W. J., & Co.
Laughland, Mackay & Baker
Tasmanian Eucalyptus Oil Co.

EXTRACT MEAT
Armour & Co. | Brand & Co.
Idris & Co. (Viking Co.)
Liebig Co.
Liquor Carnis Co.
Wyeth, J., & Brother

EXTRCTS, FLUID
Allen & Hanburys
Allen, G., & Co.
Bleasdale & Co., Lim.
Burgoyne, Burbidges & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Co.
Hearon, Squire & Francis
Hooper, B., & Co.
Lloyd, T. Howard, & Co.
Moss & Co.
Parke, Davis & Co.
Potter & Clarke
Ransom, W., & Son
Richardson, J., & Co., Lim.
Wright, Layman & Umney

EXTRACTS, SOLID
Allen, G., & Co.
Ransom, W., & Son

FEEDG BOTTLES
Burroughs, Wellcome & Co. (Thermo Safe)
Chemists' Association, Lim
Evans, Sons & Co.
Gilbertson, H., & Sons
Hearn, Wright & Co.
Hockin, Wilson & Co.
Hovenden & Sons
Kilner Bros.
Marriott, E. & Co.
Maw, S., Son & Thompson
May, Roberts & Co.
Shirley Bros. | Youldon, E.

FILTERS
Fordham, W. B., & Sons, Lim.

FORMULÆ
Brooks, T.

FLY PAPERS
Buchan, D.
Ford, Shapland & Co.
Marshall, E.
May, Roberts & Co.
Silverlock, H. | Strong, Christy
Smith, J. H.
Tidman & Sons
Tunbridge & Wright

FOOD (Infants' & Invalids')
Allen & Hanburys
Benger's Food
Brand & Co.
Cerebos Salt Co., Lim.
Evans, Sons & Co.
Glendenning, W., & Sons
Goodall, Backhouse & Co.
Hearon, Squire & Francis
Liquor Carnis Co.
Liebig Co. | Lorimer & Co
Mason, G., & Co., Lim.
Mellins Food | Nestié, H.
Tyrer, P.
Viking Food Co.
Wyeth, J., & Bro.

FULLERS' EARTH
Barclay & Sons, Lim.
Fullers' Earth Mining Co., Lim.

GELATINES
Astley, Cooper & Co.
Boehm, F.

GINGER ALE
Bratby & Hinchliffe, Lim.
Chemists' Aerated & Mineral Water Association, Lim.
Ellis & Son
Mills, R. M., & Co.
Ross & Sons, Lim.

GLYCERINE
Blyton, Astley & Co. (Pastilles)
Boehm, F. Fink & Co.
Price's Candle Co., Lim.

GUM
Fink & Co. (Arabic, &c.)

GRANULAR PREP.
Bishop, A., & Sons
Blyton, Astley & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard, & Co.
Richardson, J., & Co., Lim.
Tyrer, T., & Co.
Wright, Layman & Umney

HAIR PREP.
Bates, F. W.
Chesebrough Co.
Edwards & Co.
Truefitt, H. P., Lim.

HERB BEER EXTS.
Newball & Mason
Pegg, J. A. | Potter & Clarke
Southall Bros. & Barclay

HOMŒOPATHIC
Epps, James & Co., Lim.
Keene & Ashwell
Leath & Ross
Watson & Wates

HYPOPHOSPH'TES
Duncan, Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Lorimer & Co. | Symes & Co.
Tyrer, T., & Co.

INHALERS
Burroughs, Wellcome & Co.
Gilbertson, H., & Sons
Hockin, Wilson & Co.
Martindale, W.
Toogood, W.

INK
Bewley & Draper, Lim.

INSECTICIDES
Barclay & Sons, Lim.
Fleming's Oil and Chemical Co. (Lim.) (Moths)
Hockin, Wilson & Co.
Jackson, T. (Bellows)
Lorimer & Co.
Sandford & Sons
Steiner & Co.
Stevenson & Howell

JELLOIDS
Warrick Bros.

KETCHUP
Tyrer, P.

KOLA
Christy & Co.
Moss, John, & Co.

LAMPS
Caspar & Co.

LARD
Ewen, J., & Sons

LIME JUICE
Evans, Sons & Co.
Lorimer & Co.

LINT
Burgoyne, Burbidges & Co.
Christy, T., & Co.
Liverpool Lint Co.
Maw, S., Son & Thompson
Newsome, C.
Robinson & Sons

LIQUORICE
Dennis Di Lugo & Co.
Evans, Sons & Co. (Savarini)
"Solazzi"

LIQUORS
Cooper & Co.
Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Moss, John, & Co.
Oppenheimer, Son & Co., Lim.

LOZENGES
Allen & Hanburys
Blyton, Astley & Co.
Gibson, R. & Sons (Manfrs.)
Guest, T., & Co.
Hill & Son | Lorimer & Co.
Raimes & Co.
Richardson, J., & Co., Lim.
"Solazzi"
Warrick Bros.

MACHINERY
Bennett, Sons & Shears Lim.
Gardner, W.
Hockin, Wilson & Co.
Melin, C. | Pindar, J. W.
Werner & Pfleiderer (Kneading and Sifting)

MAGNESIA
Bleasdale, W., & Co.
Evans, Sons & Co.
Henry, T. & W. (Calcined)
Hill, A. S., & Sons
Lloyd, T. Howard, & Co.
Lorimer & Co.
Washington Chemical Co.

MALT EXTRCT, &c.
Allen & Hanburys
Anderson & Co.
Burroughs, Wellcome & Co. (Kepier's)
Glendenning, W., & Sons (Wine)
Hearon, Squire & Francis
Lofoden Cod Liver Oil Co.
Lorimer & Co. | Moss, J., & Co.
Oppenheimer, Sons & Co., Lim.
Parke, Davis & Co.
Raimes & Co.
Raines, Clark & Co.
Richardson, John, & Co. Leicester), Lim
Robinson & Co.

MANICURE
Hovenden & Sons

MARKING INKS
Bond (Daughter of the late John) (Ink & Pencils)

MEDICINE CHSTS
Burroughs, Wellcome & Co.
Day, Son & Hewitt (Veterinary)
Day & Sons (Veterinary)
Richardson, J., & Co., Lim.

MENTHOL
Burroughs, Wellcome & Co.
Christy, T., & Co.
Evans, Sons & Co.
Hockin, Wilson & Co.
Maw, S., Son & Thompson
Shirley Bros. | Tyrer, P.

MERCURIALS
Howards & Sons
May & Baker, Lim.
Tyrer, T., & Co.

METH. SPIRTS, &c.
Boord & Son | Burrough, J.
Jones & Co.
Phillips, G., & Co.
Smith, S., & Co.
Warren, A. & J.

METHYLENE
Robbins, J., & Co.

MICROSCOPES
Darton, F., & Co.

MILK
Nestlé, H. (Condensed)

MORPHIA
Macfarlan, J. F., & Co.
Smith, Bertie, & Co.
Smith, T. & H., & Co.

NIGHT LIGHTS
Palmer & Co., Lim.

OILS
Bowley, S., & Son
Hooper, B., & Co. (Sandal Wood)

OILS, PAINTS, VARNISHES, &c.
Rigby, Ralph, & Co.

OINTMNT BASES &c.
Burroughs, Wellcome & Co. (Lanoline)
Chesebrough Co. (Vaseline)
Christy, T., & Co.
Lloyd, T. Howard, & Co.
Richardson, J., & Co. (Leicester), Lim.
Rypona
Stevenson, H. E., & Co.

OPIUM
Hopf, R.

OPTICIANS
Botwright & Grey
Darton, F., & Co.
Raphael, J. & Co.

OTTO OF ROSE
Warrick Bros.

OXIDE OF ZINC
Hubbuck, T., & Son, Lim.
Stevenson, H. E., & Co.

PALATINOIDS
Oppenheimer, Son & Co.

PASTILLES
Jackson, T.

PAT. MEDCNS, &c.
Anglo-American Drug Co. Lim. [Preserv.)
Atkinson & Barker (Infant
Barclay & Sons, Lim.
Beecham, T. (Pills)
Bow's, Dr., Liniment
Chemists' Association, Lim.
Clarke's Blood Mixture
Cullwick's Skin Ointment
Cullwick's Blood Tablets
Edwards & Son
Evans, Lescher & Webb
Fassett & Johnson
Fenning (Powders)
Goodall, Backhouse & Co.
"Hermanine"
Holloway (Pills and Oint.)
Hovenden & Sons
Lalor (Phosphodyne, &c.)
Mackenzie, Dr. (Catarrh Cure)
May, Roberts & Co.
Newbery, F., & Sons
Norton & Co. (Influenza cure)
Powell, T.
Roberts & Co (Foreign)
Sutton, W., & Co.
Warner, H. H., & Co., Lim.
Wilkinson & Co.
Wilson, A. (Bunter's Nervine)

PEPPERMINT OIL
Bush, W. J., & Co.
Jakson, J., & Co.
Ransom, W., & Son
Stevenson & Howell

PERFUMERY, FANCY SOAPS
Barclay & Sons, Lim.
Bleasdale & Co.
Blondeau & Cie. | Boehm, F.
Blyton, Astley & Co.
Brooks, T. (solid)
Burgoyne, Burbidges & Co
Burroughs, Wellcome & Co.
Bush, W. & J., & Co.
Chemists' Association, Lim.
Chesebrough Co.
Evans, Sons & Co.
Ewen, J., & Sons | Farina, J. M.
Hovenden & Sons
Kemp & Son
Lanoline | Mulhens, F.
Lynn, J. H., & Co.
Newbery, F., & Sons (Berdoes
Pears, A. & F., Lim.
Price's Patent Candle Co
Sozio & Andriolí
Tidman & Son | Treatt, R. C.
Truefitt, H. P., Lim.
Van Oppen & Co.
Warrick Bros.
West, T. (Okeli's Mona)
Woolley, Sons & Co. (Powder)
Wright, Layman & Umney

PEPSIN, &c.
Armour & Co.
Burroughs, Wellcome & Co.
Newbery, F., & Sons (Ingluvin)
Oppenheimer, Son & Co.
Parke, Davis & Co.
Stevenson, H. E., & Co.
Warner & Co. (Ingluvin)

PEROX. OF HYDR.
May & Baker, Lim.
Robbins & Co. | Tyrer, T., & Co.

PETROLEUM
Allen & Hanburys
Christy, T., & Co.
Dee Oil Co., Lim.
Hatrick & Co., Lim. ("Lucilline")
Snowdon, Sons, & Co. (Jelly)

PETROL'M JELLY
Rigby, Ralph & Co.

PHARM. PREPS.
Allen & Hanburys
Antitoxine | Armour & Co.
Baiss Bros.
Barron, Harveys & Co.
Boehm, Fredk.
Boehringer, C. F., & Sohne
Boulton, J., & Co., Lim.
Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co.
Duncan, Flockhart & Co.
Evans, Sons & Co.
Ferris & Co.
Fletcher, Fletcher & Co.
Giles Schacht & Co.
Hearon, Squire & Francis
Hewlett & Son
Hill, A. S., & Sons
Howards & Sons
Lactophenin
Macfarlan, J. F., & Co.
Mackey, Mackey & Co.
Martindale, W.
May & Baker, Lim.
Moss, J., & Co.
Oppenheimer, Son & Co., Lim
Parke, Davis & Co.
Potter & Clarke
Richardson, John, & Co. (Leicester). Lim.
Roberts & Co. [Lim.
Smith, T. & H., & Co.
Squire & Sons
Stevenson, H. E., & Co.
Sutton, W., & Co.
Symes & Co. | Tyrer, T. & Co.
Terroi Co.
Warner, H. H., & Co., Lim.
White, Alfred, & Sons
Woolley, Sons & Co.
Wyeth, Jno., & Bro.
Zimmermann, A. & M.

PHOTOGRAPHIC
Airs & Co. | Barclay & Sons, Lim
Blackfriars Photographic Co.
Boehm, Fredk.
Botwright & Grey
Burroughs, Wellcoms & Co.
Darton, F., & Co.
Eastman Photo Materials Co.
Evans, Sons & Co. [Lim.
Fordham, W. B., & Sons, Lim.
Howards & Sons (Chemicals)
Kombi Camera
Raphael, J., & Co.
Thornton-Pickard Co.
Tyrer, T., & Co.
Vérel, F. W., & Co.
White, Alfred, & Sons
Zimmermann & Co.

PILL MACHINES
Pindar, J. W.
Toogood, W. (Coater)
Werner & Pfleiderer

PILLS, Coated, &c.
Allen & Hanburys
Anderston Apothecaries' Hall
Beecham, Thomas
Blyton, Astley & Co.
Cox, Arthur H., & Co. (tasteless)
Duncan, Flockhart & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Hill, A. S., & Son | Holloway's
Lloyd, T. Howard, & Co.
Lorimer & Co.
McKesson & Robbins
Newbery, F., & Sons
Nortons, Lim. (Camomile)
Parke, Davis & Co.
Potter & Sacker
Richardson, J., & Co., Lim.
Walker, D. P.
Wand, S. (Pearl Coated)
Warner, W. R., & Co. (Coated
Wyeth, J., & Bro. | Wyleys, Lim

PLASTERS
Blyton, Astley & Co.
De St. Dalmas, A.
Ellwood Lee, J. Co.
Evans, Sons & Co.
Johnson & Johnson, Lim.
Leslies, Lim | Mather, W., Lim
Seabury & Johnson

POLISHING
Bradley & Bourdas (Albatum)
Chancellor & Co.
Fordham, W. B., & Sons, Lim.
"Velutina"

POPPY HEADS
Bleasdale & Co., Lim.

PORCELAIN GDS
Toogood (E.c. Pots, regist.)

POULTRY FOOD
Spratt's Patent, Lim.

PRINTING
Bowers Bros.
Corsan, J. R. (Glass)
Ford, Shapland & Co.
Harrison & Waide
Molling & Co. | Silverlock, H.
Taylor Bros. | Townsend

QUININE SALTS
Boehringer, C. F., & Sohne
Hockin, Wilson & Co. (Wine)
Howards & Sons
Smith, S., & Co. (Wine)
Zimmermann, A. & M.

RENNET
Duncan, Flockhart & Co.
Tomlinson & Hayward
Warren, A. & J. Vells)

RUBBER GOODS
Birnbaum, B., & Son, Lim.

SACHETS
Warrick Bros.

SALICIN
Macfarlan & Co.
Smith, T. & H., & Co.

SALICYLIC ACID
Burgoyne, Burbidges & Co.
Zimmermann, A. & M.

SALTS
Hebbeler, K.

SARSAPARILLA
Wilkinson's

SAUCES, PICKLES
Goodall, Backhouse & Co.
Tyrer, P.

SCHOOLS, &c.
Central School of Chemistry
City School of Chemistry and Pharmacy, Lim.
Liverpool School
London Homœopathio and Medical School
Manchester Col. of Pharmacy
Metropolitan Col. of Pharmacy
Newcastle School
Northern College of Pharmacy
North of England School
Royal Dick Veterinary College
Sheffield College of Pharmacy
South London School of Pharmacy, Lim.
Strand College
The School of Pharmacy
Weetminster College

SCIENTIFIC INSTRUMENTS
Darton & Co.

SEA SICKNESS REMEDY
Yanatas, Lim.

SEIDLITZ PWDRS
Blyton, Astley & Co.
Hockin, Wilson & Co.
Hora &Co.| May, Roberts&Co.

SEEDS
Potter & Clarke

SELTZOGENES
Bratby & Hinchliffe Lim
British Syphon Manufactur-
Evans, Sone & Co. ing Co.
Hockin, Wilson & Co.
May, Roberts & Co.

SHAVING
Hovenden & Sons (Euxesis)
Lloyd, Mrs. A. S. (Euxeeis)
Truefitt. H. P.. Lim.

SHEEP DIP
Fletcher, Bros. & Co.
Jeyes'SanitaryCompoundsCo.
Ness & Co.
Odams' Chemical Co., Lim.
Rigby, Ralph & Co.
Tomlinson & Hayward, Lim.

SHOP FITTERS
Bowling & Govier
Bygrave, J. & W.
Evans, Sons & Co. Howlett. S.
Josephs P.| Treble, G., & Son
Yates, W. S.

SOAP
Ayrton & Saunders
Barclay & Sons, Lim.
Blondeau et Cie (Vinolia)
Bronnley, H., & Co.
Cook, E., & Co.
Evans, Sons & Co.
Fordham, W. B., & Sons, Lim.
Jeyes'SanitaryCompoundsCo.
Lorimer & Co. | Muhlens, F.
Pears, A. & F., Lim.
Sinclair, J., & Son
Tidman & Son
United Alkali Co., Lim.
Wright, Layman & Umney
Yardley & Co.

SODIUM PRXIDE.
Burton, W., & Sons

SPECTACLES
Botwright & Grey
Darton, F., & Co.
Raphael, J., & Co.

SPONGES
Cresswell Bros. & Schmitz
Evans, Sons & Co.
Marks, Henry, & Sons (Lim.)
Peterson, M., & Co.

STAMPS(RUBBER)
Hickisson. J.

STARCH
Barclay & Sons, Lim.
Critchley (Glose)

STOPPERS
Austin & Co (Sprinklers)
Barnett & Foster
Birmingham Stopper Co.
Melin,C.| Orchard,E. (Polson)
Patent Stopper. Box, and Stamping Co. (Lim.)
Stipendum Stopper Co., Lim.

STOVES
Clark, S., & Co., Lim.

SUGAR OF MILK
Boehm, Fredk.

SURGICAL
Ayrton & Saunders
Bailey, W. H., & Son
Barclay & Sons, Lim.
Burgoyne, Burbidges & Co.
Cocking, J. T.
Ellwood Lee, J.. Co.
Eschmann Bros. & Walsh
Ferris & Co. | Harris, J.
Hatrick & Co., Lim.
Haywood, J. H.
Kahnemann & Krauee
Krohne & Sesemann
Lambert, A , & Co.
Liverpool Patent Lint Co.
Macfarlan, J. F., & Co.
Mather. W., Lim.
Maw, S., Son & Thompson
Oppenheimer, Son & Co.
Powell & Barstow
Quelch, H. C.
Richardson, John, & Co., Lim.
Robinson & Sone
Schntze, F., & Co.
Statham, H., & Co.
Victoria Rubber Co.
Wood, Vincent

SYPHONS
Barnett & Foster
Bratby & Hinchliffe, Lim.
British Syphon Co.
Chemists' Aërated & Mineral Waters Association, Lim.
Fordham, W. B., & Sone, Lim.
Idris & Co., Lim.
Kilner Bros. | Melin, C.
Rylands. Dan. Lim.

SYRUPS
Blyton, Astley & Co.
Cooper & Co.
Fletcher, Fletcher & Co.
Idris & Co., Lim. (Liquors)
Stevenson & Howell

TABLETS
Blyton, Aetley & Co. (Sulphur)
Caspar & Co., Lim.
Corsan, J. R. (Advertising)
Richardson, J., & Co., Lim. (Compresseed)

TEA
Burroughs, Wellcome & Co. (Tabloids)
Gt. Tower Street Tea Co.
Pearse & Meeking

THERMOMETERS
Ayrton & Saunders
Bailey, W. H., & Son
Barclay & Sons, Lim.
Darton. F., & Co.
Raphael, J., & Co.

TEETHING PADS
Marriott, E., & Co.

TINCTURES
Evans, Sons & Co.
Hewlett, C. J., & Son
Lloyd, T. Howard, & Co.
Moss, John & Co.
Parke, Davis & Co.
Wyleys, Lim.

TOBACCO & CIGRS
Lusby's Tobacco Co.
Singleton & Cole (Lim.)

TOILET
Aspinall, E.
Allen & Hanburys (Chrisma)
Bates,F.W. |British Paper Co
Burroughs, Wellcome & Co. (Lanoline)
" Cosmosine "
Dee Oil Co., Lim.
Hockin, Wilson & Co.
Hovenden & Sons
Maw, S., Son & Thompson
Quelch, H. C.
Truefitt. H. P., Lim.

TOOTH PASTE
Beecham, T.
Jewsbury & Brown
Lutheni & Co.
Maw, S., Son & Thompson
Sutton, O., & Co.
Truefitt, H. P., Lim.
Wilson, A. (Bunter'e)
Woods. M. (Areca)

TOOTH PREPS.
Hermanine

TRADE MARKS
Browne, T. B.
Trade Mark Society, Lim.

URETHRANE
Howards & Sons
Vaccine Association (Lymph).

VALUERS & TRNSFR AGNTS
Berdoe & Co | Brett, F. J.
Crocker, G. B., & Co.
Fergusson & Osborne
Orridge & Co.
Tomlinson, Thos. & Son

VETERINARY
Bird & Storey | Day& Son
Day, Son & Hewitt
Elliman, Sons & Co.
James, W. H. (Blisters)
Jeyes'SanitaryCompoundsCo
Kemp & Son
Lloyd, T. Howard, & Co.
Rookledge, F. E.
Spratt's (Dogs)
Walker, Troke & Co.

VACCINATION
Vaccine Association (Lymph).

VANILLA BEANS
Lyon, Henri

VASELINE
Chesebrough Co.

VERMIN KILLER
Steiner, E., & Co.

VINEGAR
Champion& Co., Lim.
Grimble & Co.

VINOLIA Superf'tt'd
Blondeau & Cie.

WHOLSLE & EXPT DRUGGISTS
Allen & Hanburye
Allen, S., & Son | Baiss Bros.
Barron, Harveys & Co.
Bleasdale & Co., Lim.
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Evans, Sons & Co.
Evane, Lescher & Webb
Faccett & Johnson
Ferris & Co.
Graf, F.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan
Hearon, Squire & Francis
Hewlett & Son
Hill, A. S., & Son
Kemp, Wm. & Son
Lloyd, T. Howard, & Co
Lofthouse & Saltmer
Macfarlan, J. F., & Co.
Mackay, Mackay & Co.
Potter & Clarke
Raimes & Co.
Raimes, Clark & Co.
Richardson, J., & Co., Lim.
Smith, B. A , & Co.
Stevenson, H. E., & Co.
Symes & Co.
Walker, Troke & Co.
Willows, Francie & Butler
Woolley, Jas., Sons & Co.
Wright, Layman & Umney
Wyleys, Lim.

WINES, SPIRITS
Armbrecht,Nelson&Co.(Coca)
Burroughs, J.
Coleman & Co., Lim.
Dowden & Co., Lim.
Durrant & Co.
French Hygienic Socy. (Coca
Glendenning, W., & Sons
Goodall. Backhouee & Co.
Hirst, Brooke & Hirst, Lim.
Lorimer & Co.
Millar, A., & Co. (Orange)
Phillips,G.,&Co.| Robinson,B.
Smith, S., & Co. (Orange)
Warren, A, & J.
Wright, Layman & Umney

1,000 PILLS IN SHOW VASE, 5/6.

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WM. R. WARNER & CO.

SMALL SUGAR-COATED PILLS,

Unequalled in their medicinal properties or in SOLUBILITY, the best ingredients being invariably employed.

Suitable for Retail Sale, in Screw-capped Pill Tubes. Not liable to Stamp Duty unless specially recommended or sold as "Proprietary."

No. 142.—Gran. Cath. Comp. (Little Cathartic Granules). Aloin, 1-10 gr.; Podophyllin, 1-5 gr.; Ext. Hyoscy., 1-20 gr.; Jalapin, 1-10 gr.; Ext. Nuc. Vom., 1-20 gr.; Ol. Res. Capsici, 1-20 gr. Dose, 1 to 4.	Per 1,000, in Plain Bottle. **4/-.**	Per Small Stoppered Vase, with painted glass label, **5/6.**	Per Stoppered Vase, with painted glass label (5,000), **21/-.**

No. 180.—Gran. Cath. Co. c. Euonymin.—Same as "No. 142," except that 1-5 gr. Euonymin is used instead of 1-5 gr. Podophyllin. Prices same as for "No. 142."

An "all-round" Antibilious Pill, which has found favour wherever introduced, is "No. 120" ("Pil. Cathartic & Liver").

No. 120.—Pil. Cathartic and Liver. ℞ Podophyllin, ¼ gr.; Ext. Colocynth, ½ gr.; Pv. Soc. Aloes, 1 gr.; Pv. Scammony, ¼ gr.; Pv. Saponis, ½ gr.; Ext. Hyoscyami, ⅛ gr.; Gingerine, ⅛ gr. Dose, 2 to 4 pills as a purgative, 1 to 2 pills as an aperient.	Per 1,000, in Plain Bottle, **4/-.**	Per Stoppered Vase, with painted glass label, **6/4.**	Per Bottle (Bulk) of 5,000, **18/9.**

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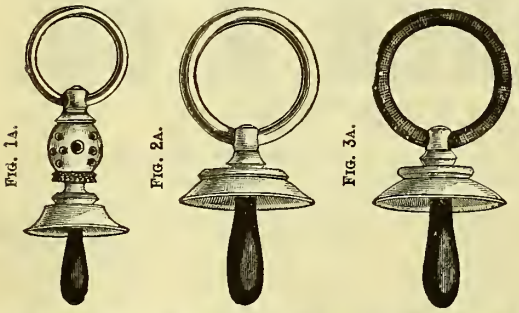

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NOTICE.—THE PRINCIPAL PATTERNS of our 6d. BABY SOOTHERS are REDUCED to 4d. Revised Price List forwarded on application.

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Chicago, 1893.
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Prof. Dr. A. von Bardeleben, on Dec. 29, 1894, writes:—
"According to my experience of many years, it is the best of all such salves."

INVALUABLE FOR CHAPS, BURNS, AND ALL SORES.

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Court Journal says of them—"They are a perfect gem of beauty, lightness, and utility."

XYLONITE EYE CAPS
(*Concave*). *Rights and Lefts.*
Flesh Coloured.
Stop out the Light and Cold without Touching the Eye.

Of MAW, SON & THOMPSON,
And all Sundriesmen,

And T. H. HARRISON, 40 Hatton Garden, London, E.C.

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FERROUS CARBONATE

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BECAUSE

There is a fair profit on them.

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There are many constantly-demanded Formulas.

They are the only scientific way of administering easily decomposed salts.

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503	Ferrous Carbonate, with Aloes, ¼ gr.	9/6	42/-
504	Ferrous Carbonate, with Aloes and Quinine	9/6	42/-
505	Ferrous Carbonate, with Nux Vomica	9/6	42/-
506	Ferrous Carbonate, with Nux Vomica and Quinine	9/6	42/-
507	Ferrous Phosphate	9/6	42/-
508	Ferrous Phosphate, with Nux Vomica	9/6	42/-
509	Ferrous Phosphate, with Nux Vomica and Quinine	9/6	42/-
510	Hypophosphites Co.	9/6	42/-
511	Ferrous Carbonate and Arseniate, with Nux Vomica	9/6	42/-
512	Ferrous Carbonate, with Ext. Cascara Sagrada	9/6	42/-
513	Ferrous Carbonate, with Ext. Cascara Sagrada and Nux Vomica	9/6	42/-
514	Ferrous Carbonate, with Aloes, ⅛ gr.	9/6	42/-
515	Ferrous Carbonate, with Potass. Permang., ⅛ gr.	9/6	42/-
516	Ferrous Carbonate, with Potass. Permang, ¼ gr.	9/6	42/-
517	Ferrous Carbonate, with Potass. Permang, ½ gr.	9/6	42/-
518	Ferrous Carbonate, with Potass. Permang, 1 gr.	9/6	48/-
519	Ferrous Carbonate and Arseniate, with Potass. Permang.	9/6	42/-
520	Ferrous Phosphate, with Potass. Permang.	9/6	42/-
521	Ferrous Carbonate, with Potass. Permang., Ext. Cascara Sagrada, and Nux Vomica	9/6	42/-
522	Potass. Permang., with Strych. and Quinine	9/6	42/-
523	Potass. Permang., Ergotin, and Nux Vomica	9/6	42/-
524	Potass. Permang., with Sodium Arsen. and Aloes	9/6	42/-
525	Ferrous Carbonate, with Aloes and Nux Vomica	9/6	42/-
526	Ferrous Carbonate and Euonymin	9/6	42/-
527	Ferrous Carbonate, Nux Vomica, Euonymin, and Belladonna	9/6	42/-
528	Ferrous Carbonate, Zinc Valerianate, and Cascara	9/6	42/-
529	Ferrous Carbonate, Zinc Valerianate, and Nux	9/6	42/-
530	Ferrous Carbonate, Zinc Valerianate, and Quinine	9/6	42/-
531	Ferrous Carbonate, with Strychnine	9/6	42/-
532	Ferrous Carbonate, with Zinc Valerianate	9/6	42/-
533	Ferrous Salicylate, 2 gr.	9/6	42/-

Subject to usual Discounts. New Price List and Discount Sheet gladly sent on application.

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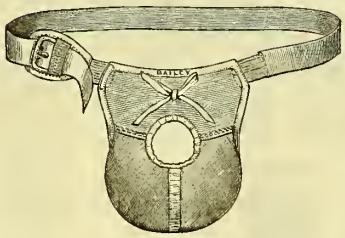

Fig. 1.

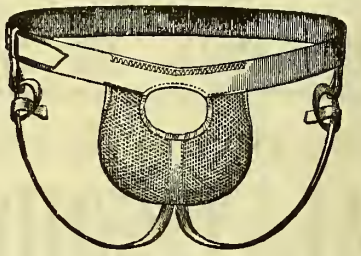

Fig. 2.

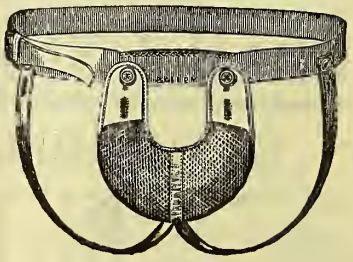

Fig. 3.

Cabinet of 2 dozen assorted, 30/- USUAL DISCOUNT.

TESTIMONIAL. *The Foregate, WORCESTER.*

GENTLEMEN,—Please repeat our last order for "Suspensory Bandages." We think your idea of arranging the sizes and qualities by the use of numbers and letters a very excellent one, as it is most convenient to the Chemist in ordering, and we find our customers make use of your method. It brings us many repeat orders.

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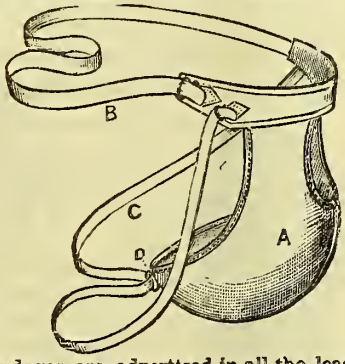

Each Bandage bears a Guarantee to give satisfaction to wearer, or money returned at our expense.

COTTON POUCHES.

Nos.	10	16	21
	6/6	12/	18/ per doz.

SILK POUCHES.

Nos.	26	31	34	36
	24/	30/	48/	72/ per doz.

We call attention to the fact that our Bandages are advertised in all the leading Athletic papers, and are largely used by Athletes of all kinds. We would strongly recommend all Chemists who require a first-rate Bandage, and who wish to give satisfaction to their Customers, to hold stock, which will enable them to supply our Bandages when asked for.

May be obtained from all leading Druggists' Sundries Houses throughout the Country, or from the

WELLS MANUFACTURING CO. (H. C. Quelch), LUDGATE SQUARE, LONDON, E.C.

The Place of Kepler Solution in Modern Pharmacy.

THE ACIDS OF COD-LIVER OIL.

To place before our readers anything like a complete history of past attempts to render Cod-liver Oil palatable and acceptable to the patient would require volumes. One can only single out as being of present interest the so-called Emulsions—really alkaline saponifications or gummy messes—for comparison with the now generally accepted solution, the Kepler. The media used for the emulsification of the Cod-liver Oil are legion, the leading ones of which are, perhaps, Gum Acacia, Albumen, Dextrin, Moss Jelly, Quillaia, and Alkalies; while the flavouring agents used vary according to the popular taste of the particular country in which the Emulsion may happen to be produced, the essential oils hitherto in vogue being Cassia, Cinnamon, Oil (essential) of Bitter

Alkaline Emulsions.

Emulsifying Media.

Almonds, Lemon, Cloves, and others of this class. What the ultimate chemical results have been when these Emulsions have been ingested it would be hazardous to guess; the ordinary results we know—the whole gastric process thrown completely out of gear, the patient suffering intensely from nausea and general systematic disturbance, and ultimately creating an absolute dislike to the very name of one of the most important compensators of waste ever administered to the human organism. But totally apart from the undesirable results of the decomposition which must necessarily occur when these alkaline or gummy preparations are presented to the acid constituents of the stomach, we have to consider seriously the possibility of these unscientific mixtures destroying the chief valuable acids of the oil. As a matter of fact, the emulsification of Cod-liver Oil has in the majority of cases been carried out on the false assumption that its chemical constitution was analogous to that of other oils, whereas, as we have reason to believe from very recent reports, the main constitutents are absolutely unique and easily decomposed. It is now admitted that the real value of Cod-liver Oil as a food depends entirely upon the fatty acids (glycerides), and that these, to be of any real service, should be present unchanged. What, then, can be the value therapeutically of a preparation which has actually been saponified by an alkali? The delicate character of these acids is in itself the strongest possible argument against the use of the so-called alkaline emulsions since it renders them open to rapid oxidation, and thus to become valueless as contributing material to maintain the balance in these cases of abnormal tissue waste. The mere subdivision of the oil molecules in ordinary emulsions is not in itself, from a strictly scientific standpoint, any great triumph, or even a point in their favour, since the oil on being administered will again coalesce, and the only advantage reaped is that the palate has been tricked and the patient's primary objections overcome. But the work thrown upon the economy—the emulsification and assimilation of the fat is not a whit the less; nay, it may be even greater than in the case of plain oil through the temporary derangement of the gastric function by the inevitable decomposition of the emulsion of the natural acids. This aspect of the question becomes doubly serious when we reflect that this invaluable food becomes intolerable to the very class for which it is an absolute necessity, and the constant cry of bygone decades of patients was that they were unable, even when they knew the consequence, to carry out the physician's treatment; and it was a lamentable fact that the persistent endeavours of the best pharmaceutical talent of the day only partially succeeded in solving the problem. The difficulty was as far off as ever from being surmounted when the Kepler Solution was brought before the medical profession, and hailed as a real boon. The reception then given to the new preparation was at once highly flattering, and its success instantly assured. *The British Medical Journal* said on its appearance:—

Flavouring Agents.

Why these Preparations Fail!

An Old Idea Exploded.

The Importance of these Glycerides.

A New Argument.

The Old Method.

"The Kepler Solution is a great advance on anything hitherto attempted in this direction. . . . The production of a Solution of Cod-liver Oil in Malt is a great advance, and marks an epoch in the history of rational therapeutics."

A Pharmaceutical Triumph.

In the Kepler Solution the taste and smell of the oil are perfectly masked, and is so palatable that it is cheerfully taken, and indeed relished by even the most delicate of patients. In the case of children and invalids this is a great point gained, since it places in the hand of the medical adviser a combative food—material of immense usefulness which is increased by the fact that the Kepler may be taken comfortably in summer as well as in winter—in fact, all the year round. The place of the Kepler Solution in Modern Pharmacy is, it will be thus seen, an enviable one, since it is a typical preparation—typical of modern elegance and of modern practicability and rationalism—and the results of immense clinical experience, never before recorded in connection with any similar preparation, and gathered from all the corners of the earth, show very clearly the superiority of the Kepler Solution over the many attempted imitations. Although on its first appearance the Kepler was declared by a competent authority as "an ideal form for the administration of fat," we have not rested from constant endeavour to improve it, and its ever-increasing popularity with the medical profession attests this fact. Supplied to the Trade in bottles (two sizes) at 20/- and 36/- per dozen.

For all Sorts and Conditions of Patients.

A World-wide Known Fact.

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"VASELINE" (Pure). Card Cases.	No. 1 size, 3/0½; No. 2, 6/1; ½-lb. Tins, 7/-; 1-lb. Tins, 12/- per doz.
"VASELINE," Blue Seal.	No. 1 size, 21/-, and No. 2 size, 42/- per gross.
"VASELINE" Cold Cream.	No. 1 size, 4/9; No. 2, 7/-; No. 3, 12/-; No. 4, 21/- per doz.
"VASELINE" Camphor Ice.	Tins or Tubes, 3/0½ per doz.
POMADE "VASELINE."	No. 1 size, 3/11, and No. 2 size, 7/10 per doz.
"VASELINE" Toilet Soaps.	Unscented, Perfumed, or Tar, 20/6 per gross.

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PROPRIETORS AND SOLE MAKERS OF "VASELINE."

Hamamelis Virginica (Witch Hazel)

"HAZELINE."

In the whole range of modern remedies which have been taken up by members of the medical profession, and which have retained a lasting hold upon their confidence, few are so generally useful as "Hazeline." It has now permanently taken the place occupied for so long a period by that respectable but much overrated preparation, Tincture of Arnica; and rightly so, for "Hazeline" possesses all the advantages of Arnica without any of its drawbacks, being in fact many times more useful, since it may fearlessly be used internally as well as externally.

The styptic and antiseptic properties of "Hazeline" are such as to enable it to be used either diluted or undiluted, in the treatment of both healthy and unhealthy wounds, and, diluted with a little warm water, upon even so delicate an organ as the eye. Where the eyes have an offensive or unpleasant discharge, a few teaspoonfuls of "Hazeline" added to a teacupful of water at the temperature of the blood act as a very soothing and cleansing lotion; or in cases of catarrh or inflammation, such as often supervene as the result of catching cold, a few applications of this lotion will give considerable ease and relief.

"Hazeline" is supplied to the Trade in ¼-lb. and 1-lb. bottles, at 14/- and 42/- per dozen.

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DRAPER'S INK
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When this Ink is used writing becomes a pleasure

May be had from all Chemists and Druggists and Stationers.

Can be obtained in London through Messrs. Barclay & Sons, Farringdon Street; W. Edwards & Son, 157 Queen Victoria Street, E.C.; F. Newbery & Son, Newgate Street; S. Maw, Son & Thompson, Aldersgate Street; Ayrton & Saunders, Duke Street, Liverpool; Goodall, Backhouse & Co., Leeds; John Heywood, Deansgate Street, Manchester; James Hemington, 8 Moor Street, Birmingham; Henry Hodder, Broad Street, Bristol.

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For Infants, Children, and Invalids.

GOLD MEDAL AWARDED—HEALTH EXHIBITION, LONDON
HIGHEST AWARD—ADELAIDE, 1887, and MELBOURNE, 1888.

The Lancet describes it as "Mr. Benger's admirable preparation."

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The British Medical Journal says: "Benger's Food has by its excellence established a reputation of its own."

The Illustrated Medical News says: "Infants do remarkably well on it. There is certainly a great future before it."

Benger's Food is sold in Tins at 1/6, 2/6, 5/, & 10/, by Chemists, &c., Everywhere.

Wholesale of all Wholesale Houses.

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Established 1859

Chief Offices: 42 Cannon Street, London, E.C.
Branch Offices: 231 Elizabeth Street, Melbourne, Victoria, and Empire Chambers, York Street, Sydney, N.S.W.

A weekly journal, supplied from the chief office in London to subscribers and persons connected with the trade only. Subscription, 10s. per year payable in advance, including a copy of the Diary next published, and postage to any country in the world. Single copies, 4d. each. Cheques and Postal Orders should be made payable to "Edward Halse," and crossed "Martin's Bank (Limited)."

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AMERICAN AND CANADIAN TRADE.

We shall have something to say next week in regard to our issue of May 25 next, which is to be addressed specially to those traders who are justly grouped as the greatest foreign customers of the United Kingdom—the drug and allied trades of the United States. Meanwhile, the Publisher will gladly inform advertisers of what his share in the matter will be, and will reserve space for those who wish to make an attractive display for American customers.

POSTCARD COMPETITION.

APRIL.

For fourteen vacancies on the Pharmaceutical Council eighteen gentlemen have accepted nomination, viz.:—

Allen, C. B., London
Atkins, S. R., Salisbury
*Bateson, T., Kendal
Bottle, A., Dover
*Campkin, A. S., Cambridge
Carteighe, M., London
*Corder, O., Norwich
Grose, N. M., Swansea
Hampson, R., Sevenoaks
Harrison, J., Sunderland
Hills, W., London
Martindale, W., London
Newsholme, G. T. W., Sheffield
Richardson, J. G. F., Leicester
*Savory, A. L., London
Southall, A., Birmingham
Young, J. R., Warington
*Wills, G. S. V., London

Those marked * are not at present members of the Council.

We ask subscribers, their employés, or members of their families to arrange these names as they think they will appear when the poll is declared. We shall give at least one guinea as a prize to the person who places the names correctly, or, if no one places the whole eighteen, then to the card which gives the nearest number to that, or we may divide the prize in case of equality. Postcards will be received up to Tuesday, April 30

Summary.

The New Zealand Early-closing Act is not working smoothly (p. 586).

A chemist's assistant at Newcastle has been fined for selling a bottle of chlorodyne (p. 589).

Helium is not lighter than hydrogen. Cleve suggests a place for it between hydrogen and lithium (p. 597).

Mr. G. W. Sargent, the eccentric Kensington chemist, seems to have died from morphia poisoning (p. 582).

The names of those who passed the Preliminary examination in Great Britain this month are given on page 603.

We print the names of those who have passed the Major and Minor examinations in London this month (p. 588).

The "New Chemist" claims recognition, and we devote an editorial article to the consideration of him (p. 596).

A Liverpool veterinary surgeon has been fined for selling for human use an unstamped veterinary embrocation (p. 589).

We resume for the season Notes on Photography, dealing chiefly with matters which interest retailers of photographic goods (p. 601).

A reputed pint of coca wine not being an imperial pint, a chemist, whose assistant sold such a bottle when a pint was asked for, has been fined (p. 589).

The Glasgow Police Commission has this week been informed that the laudanum of the city is poor. Of eight samples bought, one only was B.P. (p. 584).

Our correspondence this week is more amusing and interesting than important. Apart from half-a-dozen letters, we give numerous replies to queries (p. 608).

The Carnarvon County Court Judge has given a decision in favour of the Pharmaceutical Society in the action against a firm of grocers for selling Fellows's syrup (p. 589).

The oxyzone young men who advertised "cash for brains," and got half-a-guinea for their lampblacked sulphur, have decamped, each leaving 500*l.* bail behind him (p. 583).

The Executive of the North British Branch have met and talked about various trade matters, and approved of the annual report, which shows the cost of the new examination hall to be 3,100*l.* (p. 588).

It is pointed out in the note on p. 600 that the estimation of eucalyptol by the phosphoric-acid method gives a higher result than by the distillation method, and that a distinction should be made.

We give a portrait and some notes on the life of Dr. J. E. de Vry, C.I.E., the veteran quinologist, who started life as a pharmacist, and afterwards helped to make Java what it is in cinchona cultivation (p. 602).

Our Australian Notes contain a long report of evidence given before the Tariff Board of Victoria by wholesale druggists, who complain of the anomalous manner in which the tariff is applied to drugs and sundries (p. 586).

We summarise, in an editorial note, the more important findings of the Opium Commission, which were based largely upon medical evidence which demonstrated the propriety of the popular use of opium as an anti-malarial medicine (p. 594).

Our vote on the Early-closing Bill, taken from the chemists of Liverpool, Birmingham, and Brighton, shows that in those places, at least, there is an enormous majority in favour of legislative action in regard to shop hours (p. 596).

Dr. F. W. Passmore summarises, in this week's article on Pharmacopœia criticism, the principles which should be applied in framing characteristics and tests for essential oils. Dr. Passmore urges the desirability of more scientific methods (p 598).

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

Killed with One Match.

It is reported from Liverpool that a child of 3 has died from sulphur-poisoning (phosphorus, of course, is meant) by eating a match.

Drugs are Pure in Marylebone.

The annual report of Dr. Alexander Wynter Blyth, Medical Officer of Health and Analyst of Food and Drugs for St Marylebone, shows that during the year there were analysed, under the Sale of Food and Drugs Act, 570 samples, of which seven were drugs—namely, one of magnesium citrate, one of liquorice-powder, four of quinine, and one of sulphur tablets. None of the drug samples was adulterated.

An Anniversary.

Monday, April 22, was the anniversary of the incorporation of the Royal Society, Charles II. having granted the first charter on April 22, 1662, and a second in 1663. The Society was founded in 1645.

G. W. Sargent's Death.

The inquest regarding the death of George West Sargent, aged 54, chemist and druggist, 75 Church Street, Kensington, was concluded last Saturday. Dr. Thomas Stevenson, Analyst to the Home Office, stated that he had made an analysis of the stomach contents, and had found about one-sixteenth of a grain of morphine. He noticed that the body appeared to have been very poorly nourished, but he thought the cause of death was poisoning by morphine. He came to the conclusion, from the analysis, that the deceased must have taken much more than a medicinal dose: of course, a great deal of what he had taken would have been excreted at the time the analysis was made. Do you suppose it was swallowed?—I cannot say whether it was swallowed or taken hypodermically with a syringe. But it may have been taken with a syringe?—Possibly; but I saw no mark on the body. Deceased's brother, Mr. John Sargent, of 35 Park Avenue, Wood Green, recalled, said he had never heard his brother threaten to take his life. He was eccentric to a marked degree, so much so as to be a great annoyance to chemists in general, to whom he made himself most obnoxious. The witness Brutey repeated that he thought Sargent had starved himself to death. The Coroner said he was afraid the jury could not come to any satisfactory verdict. The deceased was very eccentric, and part of his eccentricity was to libel other chemists, which had got him into trouble before now. The cause of death they knew; but how the poison was administered they could not ascertain. Therefore, an open verdict was all that was possible, which the jury agreed with.

Accident to Dr. Stevenson.

On Saturday, while driving along Buckingham Palace Road to the Westminster Coroner's Court to give evidence regarding Mr. Sargent's death, Dr. Stevenson was thrown out of his cab, through the horse suddenly falling down. Happily, Dr. Stevenson received nothing worse than a severe shaking and one or two bruises, and, as the foregoing paragraph shows, was able to proceed to his destination.

The Brewers' Exhibition.

The opposition to the Brewers' Exhibition is not confined to brewers and hop-merchants. Amongst those who are reported to have signed an agreement not to exhibit this year are:—Legrand & Sutcliffe, London; Thomas Ryder & Co., Manchester; Bratby & Hinchliffe, Manchester; Barnett & Foster, London; Riley Manufacturing Company, London; Dan Rylands (Limited), Barnsley; Eagles & Co., Salford, Manchester; Galloways (Limited), Bolton; the Standard Essence Company, Barnsley; Barker, Soape & Wilson, Bolton; and twelve other firms of manufacturers and chemists.

An Assistant Who Knows the Law.

Called before the Maidenhead Magistrates to give evidence as to the sale of phosphorus-paste which a young fellow was charged with having taken, Mr. Hinsley Burgham, assistant to Mr. Upson, chemist, High Street, Maidenhead, said the prisoner came to his shop and asked for a threepenny pot of rat poison. He asked him if he knew how to use it, and he replied "Yes." He handed to him about 1 ounce of phosphorus-paste. In the paste used he should say there were about 8 gr. of phosphorus, which is a deadly poison.

A Magistrate: The paste is sent to you in sealed jars?

Witness: Yes, sir.

By the Superintendent: Phosphorus-paste is not one of the scheduled poisons.

The Magistrates' Clerk: Do you sell it as a poison?

Witness: As a poison for rats, oh yes. In answer to further questions, witness said they would supply it to anyone except a child. There was "Poison" printed on the jar.

Early Closing.

A meeting was recently called at High Wycombe with a view to securing a uniform time of closing amongst all the business establishments. The unsatisfactory state with regard to closing was explained, some shops having closed on Wednesdays at 4 and others not at all. This was held to be detrimental to trade. Mr. Budgen pointed out that at Reading nearly all the chemists closed at 2 o'clock on Wednesdays. A resolution was moved to close on Wednesday at 4 o'clock all through the year, and at 8 o'clock during the summer months on other days up to Friday, and at 8 in the winter. An amendment was moved to close on Wednesday at 3 o'clock. The amendment was carried.

At Beaconsfield it has been decided to close at 2 o'clock every Wednesday instead of at 4 o'clock, and at Amersham at 4 P.M. each Thursday from April 18 to September 26 inclusive.

Chemical-works on Fire.

On Saturday a fire broke out at Messrs. Tyson & Bradley's chemical-works, Brampton, Chesterfield. Assistance was rendered by Messrs. Robinson & Sons' employés and the Corporation fire brigade, and the fire was got under about an hour after the outbreak. The damage, which was considerable, was confined to the grinding department, and is not covered by insurance.

A Chemist's Son Drowned.

On Saturday afternoon last five members of the Devonport Y.M.C.A., returning from a boating-excursion to St. German's, were swamped near the coast-defence ship *Gorgon*. The cries of the young men were heard on the ship, and a boat was launched. Three of them were picked up, but the others were not seen, and were no doubt carried away by the strong current. One of those whose bodies have not been recovered was John Lamble, the son of Mr. J. A. Lamble, chemist and druggist, Devonport.

Controlling the Analysts.

At the quarterly meeting of the Holland County Council it was reported that no samples had been received since the appointment of a district agricultural analyst, and Mr. Whitsed moved that the analyst's salary be fixed to an amount in accordance with the work connected with the office. It was stated that Mr. C. H. Southwell, of Boston, received a retaining-fee of 25*l.*, and it was pointed out that the Council were bound to have an analyst, and it was doubted whether the reduction in the salary would be sanctioned. Another member pointed out that the retaining-fee was 25*l.* a year, as against 10*l.* 10*s.* a year to the Food and Drugs Analyst. The motion was defeated by 20 votes to 11.—The Local Government Board have declined to sanction the appointment of Dr. J. A. Turner, as public analyst to the Rutland County Council, on account of insufficiency of evidence of his knowledge of analytical chemistry and microscopy as applied to the detection of adulteration of foods. Dr.

Bernard Dyer, of Great Tower Street, London, public analyst for Leicestershire, has been appointed to the post.

Fatal Copying-ink Pencil.

On Thursday in last week an inquest was held at Fenton respecting the death of a child after sucking a copying-ink pencil. The evidence of Dr. Faulds showed that the child's throat was highly inflamed, and death was probably due to the absorption of a minute quantity of strong irritant or corrosive poison which led to the ultimate mortification of the respiratory organs. One of the pencils had been examined, and found to be formed of aniline in which corrosive sublimate [? arsenic acid] was used in preparation. The inquest was adjourned for an analysis of one of the pencils by Dr. Stevenson.

On Easter Monday.

Mr. Jesse Williams, chemist, Cardiff, improved the Bank Holiday by sending the whole of his staff for a trip to the picturesque town of Brecon. The party, under the leadership of Mr Jenkins, the manager, visited the many places of interest in the locality. Then followed a dinner at the Castle Hotel, a drive to Llangorse Lake, and tea at the hotel before returning to Cardiff.

A Diatom and Moss Hunt.

The students of the Manchester College of Pharmacy, several of whom are enthusiastic microscopists, had an excursion to the Peak district of Derbyshire on Saturday afternoon. Walking from Hayfield towards Chinley they collected material for examination from a brook, which proved to contain numerous diatoms and desmids. The fertile shoots of *Equisetum arvense*, with their spores and elators, were found in abundance, and the movement of the spores when breathed on interested many. *Marchantia polymorpha*, bearing very fine capsules of spores, and *Mnium hornum*, with antheridia, were also among the "finds"; the latter plant is readily found at the present season in damp situations, as is also *Mnium punctatum*. The mosses are about 2 inches high, and show the antheridia in clusters at the top of the stem mixed with paraphyses, the latter secreting water for the use of the antherozoids. To mount a slide for permanent use cut a longitudinal section through the "flower," and mount it in a tin ring on the slide in a 10-per-cent. solution of chloral hydrate. These plants are diœcious, the archegonia not being quite so readily found. Many flowering-plants were also collected, and the party reached Manchester laden with the spoil about 8 o'clock.

The Princetown Prison Dispenser.

The Secretary of State having considered the report of the inquiry into the allegations made by Compounder Durbin against the medical officer and assistant surgeon, as well as the charges brought by those gentlemen against Compounder Durbin, has decided that the services of Compounder Durbin be dispensed with, and that he shall receive a month's pay in lieu of notice.

Chemist Sentenced for Theft.

At the Central Criminal Court on Tuesday, Alfred Bellamy (25), chemist, and Lucie Bellamy (28), dressmaker, were indicted for stealing a clock and other articles, value 40*l*., the property of Mr. John Biddulph Martin, and for receiving the property knowing it to have been stolen. The female prisoner pleaded guilty to stealing the property. (We have reported the case fully previously.) The jury found the male prisoner guilty. A previous conviction was proved against him, and it was stated there was no doubt that the female prisoner had acted under his coercion. The Recorder sentenced Bellamy to three years' penal servitude, and Lucie Bellamy to nine months' imprisonment with hard labour.

Charge of Damaging a Druggist' Window.

At the Lambeth Police Court last week a man named Canter was charged before Mr. Hopkins with smashing a window and destroying a number of bottles of drugs, the property of Margaret Wells, who carries on business as a druggist at East Street, Walworth. It appeared from the evidence that there was some trade rivalry between the parties, and it culminated on the previous Monday night, when the damage complained of was done. The defendant absolutely denied all knowledge of the affair, and as the complainant was unable to prove her case the Magistrate dismissed the charge.

The Profits of a Drug Company.

In the Westminster County Court on Thursday the case of Straker *v.* Pointing was before his Honour Judge Lumley Smith, Q.C. The defendant was described as the proprietor of the Oriental Drug Company. The claim was for printing-work done, and the plaintiff's witness said the debtor had told him that the profits of the drug company were 20*l*. per week. If that were so he was in a good position to pay the debt. The defendant said he was no longer the proprietor of the business, but was only employed at a weekly salary. He had lost the whole of his capital in the business, and he absolutely denied ever having told the plaintiff that the profits were 20*l*. a week. He might have referred to that sum as being the weekly takings. His Honour thought the defendant could pay, and made an order for his committal for twelve days, but suspended the warrant for two months.

Carbolic-acid Poisonings.

The following are two more cases of poisoning with carbolic acid which have occurred since our last issue:—

A Liverpool bookkeeper, Hebson by name, and aged 45. He took the acid while he was drunk.

John Dixon (52), a grocer from Newcastle, was seen by a woman walking along Penton Place, Pentonville, on Tuesday last week. He staggered and fell, and was taken to the Royal Free Hospital, where it was found that he had swallowed carbolic acid. The verdict of the Coroner's jury, last Saturday, was that he died from poisoning thereby.

The Oxyzone Swindle.

Two young Americans succeeded in getting in half-guinea postal-orders at the rate of a thousand a day, by advertising oxyzone, a medicine for the blood (it turned out to be sulphur coloured with lampblack), and offering enormous prizes to purchasers who guessed absurdly simple questions. The criminal authorities considered that these young men, Eddames Webber (22) and Louis Henry Perlman (33), swindled people by their "cash-for-brains" system, and they were arrested. The preliminary part of the proceedings against them was referred to in our issue of February 16. The young men were wanted at the Central Criminal Court on Wednesday, but they failed to appear, and the recognisances were estreated. Bench warrants were issued, and were placed in the hands of Inspector Marshall. The bail amounted to 500*l*. each. At the time it was granted it was stated by the prosecution that there was little chance of the prisoners appearing, as "they had nothing to interest them in this country."

A Pension for a Dispenser.

At the meeting of the Holborn Board of Guardians on Wednesday night, Mr. T. J. Bolton (Chairman of the Finance Committee) proposed "That a superannuation allowance of 26*l*. be granted to Mr. R. J. Pattinson, late dispenser at the Archway Road Infirmary of the Holborn Union, whose age and failing eyesight render him incapable of dispensing drugs." A medical certificate to this effect was put in, and Mr. Geo. Eade seconded the motion. Mrs. Rowlands (wife of the Member of Parliament for East Finsbury) was the only opponent to the motion; but upon being asked to withdraw to save the trouble of a division, she assented, and the pension was granted in a practically unanimous fashion—which some members thought fortunate, seeing that the recipient had only put in thirteen years' service.

Liverpool Pharmaceutical Students' Society.

The closing meeting for this session took the form of a smoking-concert, which was held at the Alexandra Hotel on Thursday last, April 18. Mr. R. H. Mitchell presided, and was supported by a numerous gathering of members and friends. The president in the course of the evening, said that the session just closed was one which had been most satisfactory in every sense, and the very best thanks of the Society were due to their excellent Secretary, Mr. George McLoughlin, whose energy and popularity had done much

to make the meetings so enjoyable. A large accession of members had marked the year, and the attendance at the lectures had been well sustained, and this to his mind was very encouraging, when the long hours worked by chemists are considered. The range of subjects embraced by their syllabus was very wide, and the chemists' assistants of the city undoubtedly derived great benefit by attending the meetings, which be trusted would be as well sustained in the future. A collection was made on behalf of the Benevolent Fund of the Pharmaceutical Society, and the result was a larger sum than last year. The President pressed the claims of the fund upon the members present, and the collection promises to become an annual institution. On the motion of Mr. Jackson, seconded by Mr. Naylor, a hearty vote of thanks was passed to Messrs. Field, J. Jones, Lumb, Mitchell, Waring, Burn, Manley, Oxford, Anderson, and Birchall for their vocal and instrumental contributions to the evening's enjoyment.

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

Business Changes.

Messrs. J. Brown & Co., chemists and druggists, 204 North Street, Belfast, have removed to temporary premises at No. 177 in the same street.

Mr. Curham, of Richmond Street pharmacy, Dublin, is the purchaser of Atkinson's pharmacy, 1 Charlmont Place The premises were put up for sale on April 9, but withdrawn. Mr. Curham bought the place subsequently.

Mr. John Darcy, chemist and aërated-water manufacturer, St. Clanbrassil Street, Dublin, has removed his manufacturing business to his new premises in South Circular Road.

The premises of Maxwell, Greer & Co., chemists and druggists, Foyle Street, Londonderry, which were last year destroyed by fire, have been rebuilt, and were reopened on Monday last. The new concern is one of the finest drug-establishments in the country.

A Pasteur Institute Demanded.

The Poor-law Guardians throughout the country are passing resolutions calling on the Local Government Board to establish in Dublin a branch of the Pasteur Institute.

Death of an Analyst.

The death has occurred at Las Palmas, Grand Canary, where he had gone for the benefit of his health. of Mr. Edwin Douglas Cameron, analytical chemist, aged 26, son of Sir Charles Cameron, public analyst, Dublin.

Pharmaceutical Vestrymen.

Mr. George H. Grindley, M.P.S.I., Westland Row; Mr. E. M. Hodgson, J.P. (treasurer to the Irish Pharmaceutical Council), Capel Street; Dr. Rudolph A. C. Barnes, pharmacist; Mr. J. R Corrigan, L.P.S.I., Upper Baggot Street; and Sir George B. Owens, apothecary and pharmaceutical chemist, have been elected vestrymen in various Dublin parishes.

A New Form Wanted.

The Poor-law Guardians at Londonderry have passed a resolution condemning the official form of tender for drugs and medicines supplied by the Local Government Board, and calling on that body to provide an up-to date form. They urge that the continuance of its use allows the contractor to charge what he likes for the numerous drugs not included in the schedule, and which are frequently requisitioned by the dispensary officers.

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A Perfumer's Will.

The will of the late Mr. William Donald, sometime perfumer in Glasgow, and residing at 194 Dumbarton Road, has been proved, the value of the estate being 1,714*l.* 19*s.*

A Herbalist's Suicide.

A herbalist named Paterson, whose shop is in Great Hamilton Street, Glasgow, died in the Royal Infirmary there on Friday, April 19, from opium poisoning. Deceased often declared that he would kill himself, but that he had not enough poison in his shop to do it.

Aberdeen Assistants.

At the annual meeting of the Aberdeen Junior Chemists' Association last week it was reported that the Association had made steady progress during the session. The following office-bearers were elected for session 1895–96:—President, Mr. C. Forbes; vice-president, Mr. Halley; secretary, Mr. J. Black, 157 Skene Street; assistant secretary, Mr. Gilchrist; treasurer, Mr. Crabbe; committee, Messrs. Black, Deans, Wallace, Gilchrist, Macdonald, Pennie, Crabbe, Philip, Halley, Forbes, and Fowlie.

A Jolly Night.

The members of the Edinburgh Chemists', Assistants', and Apprentices' Association supped together at the Imperial Hotel on Friday, April 19. Mr. Alexander Sutherland, President of the Association, was in the chair, and Messrs. J. Laidlaw Ewing and Peter Boa supported him. After supper a toast-list of half-a-dozen items was gone through, and these made a decorous garnishing to some excellent music of a humorous and sentimental character contributed by Messrs. W. Duncan, J. P Gibb, Thwaites, Robertson, C. Brown, A. Murray, J Crichton, R. H. Tweedie, R Butchart, J. Brown, and J. M. Cameron. Mr. James Crichton acted as accompanist. It was a nice evening altogether, and it gave ample evidence of the suitability of the Association as a training-school for pharmaceutical hospitality.

Poor Laudanum.

The Health Committee of the Glasgow Police Commissioners had recently submitted to them by the Sanitary Inspector a report on a sample of laudanum sold by a druggist which was deficient in strength. Owing to special circumstances the Committee resolved not to prosecute, but directed the Inspector to purchase other samples of laudanum for further information. At the meeting of the Police Commissioners on Monday last, the Inspector submitted certificates received from Dr. John Clark, one of the city analysts, giving the results of his analyses on eight samples of laudanum, as follows:—Four showed a deficiency in morphine to the extent of from 10 to 34 per cent.; two were low in proof-spirit; one contained more morphine than the British Pharmacopœia required; and one was genuine laudanum. The Health Committee recommended that the matter be continued, pending the report of the Parliamentary Committee now sitting.

Strange Answers by Massachusetts Drug-candidates.—"Ergot, is a flower and comes from South America." "Ad lib. means f. ext. helleboie." "The root of aloes is the part used." "Bismuth is an herb and is the alkaloid of the plant." "Cholagogue is a perfume." "*Mitte talis* means to contract the pupil of the eye." "Dextrine and litharge are the same."

French News.

Diphtheria Membranes and the Post Office.—Instructions as to packing, &c., have recently been issued by the French Post Office concerning the despatch of diphtheria membranes by the post. The membranes must be in thick glass bottles, securely corked and sealed, and the bottles must be in strong tin boxes, and covered with cotton-wool, and the tin boxes must be in wooden boxes securely fastened. The packages must be inscribed, "False diphtheria membranes," and they can only be addressed to the Pasteur Institute, or other well-known laboratories.

Quinine as a Preventive for Malaria.—At the instance of the Paris Therapeutic Society a committee was named, a few weeks ago, to establish, for the benefit of the military authorities, the most preferable forms of administering salts of quinine as a preventive for malaria. The committee reports as a preventive basic hydrochloride of quinine is the preferable salt, its solubility being sufficient, and, as it is richer in alkaloid, it is less irritating to the digestive organs than sulphate. Hydrobromide appears preferable in troublesome fevers on which the hydrochloride has not had effect. Quinine should not be used in a compressed form. Soluble pills or pearls, in a gelatine envelope, appear to be the best preparations. Pills or perles, each containing 25 centigrammes of hydrochloride of quinine, can be given in doses of two per day—one in the morning, and the other in the evening—with a little water or other liquid.

The Centenary of the Ecole Normale is being celebrated this week in Paris, the initial ceremony having taken place last Sunday, April 21. This school has produced a brilliant phalanx of scholars and scientists. Pasteur and Berthelot were educated there. The first function in connection with the centenary was the unveiling of a tablet in the wall of the laboratory in the Rue d'Ulm, where Pasteur worked for twenty-four years. M. Pasteur was too unwell to be present, but was represented by his son. The tablet bears the inscription, in gold letters on black marble, as follows:—

Ici fut le laboratoire de Pasteur
1857
Fermentations
1860
Générations spontanées
1865
Maladies des vins et des bières
1868
Maladies des vers à soie
1881
Virus et vaccins
1885
Prophylaxie de la rage
1864–1888

Congress of Learned Societies.—A Conference of Learned Societies was held in Paris last week, at which all branches of science were represented. The subjects discussed were extremely varied. Photography received a fair share of attention, and, on account of the interest aroused by the new observatory on Mont Blanc, a paper by the Director, M. Joseph Vallot, received special notice. This gentleman referred to the use of orthochromatic plates for mountain photography, with which he has obtained excellent results. For distant views with the same plates, he has found it advisable to place a yellow screen in front of the object-glass. MM. A and L. Lumière attribute the diversity of opinions that exist on orthochromatism to the use of impure colouring-matters and to the conditions under which the tinctures are employed. The action of chromic acid or its alkaline salts formed the subject of a paper by M. Léon Vidal. He said it was generally admitted in books on photography that this acid has a detrimental effect on sensitive plates. He showed that this is not the case. In the section of medicine Dr. Kohos treated the question of smokers' giddiness. He said that vertigo, caused by nicotine, has not been sufficiently studied. Numerous cases have been followed by him, and he agrees with the doctors who frequently attribute troubles of the digestive organs to over-smoking. The Congress terminated last Saturday, when M. Moissan, the chemist, addressed the meeting on the subject of the progress realised in the past few years in industrial chemistry. He referred to the manufacture of iron, steel, and aluminium, the production of diamonds, the crystallisation of metallic oxides, and to the various results obtained by the electric kiln. At the end of the meeting the Minister of Public Instruction distributed a number of decorations.

Foreign and Colonial News.

Izal has been registered as a trade-mark in U.S.A.

"Doctor of Pharmacy" is the title which the Philadelphia College of Pharmacy proposes to confer upon its most distinguished graduates.

Cape Colony Examinations.—At a March meeting of the Pharmacy Board of Cape Colony, the under-mentioned gentlemen were authorised to practise as chemists and druggists in the colony:—Edward Parkinson Butler, Sivert Christian Sivertsen, Alexander Burnett Hector, and Francis Lever Workman.

Phenacetin in U.S.A.—At Philadelphia recently the Government sold by auction 7 lbs. of phenacetin and 5 lbs. of sulphonal, which they had confiscated. Mr. Dickerson, the owner of the phenacetin patents, bought it, and people are wondering if he will now sue the U.S. Government as well as retail druggists.

The New Norwegian Pharmacopœia.—This child of many troubles has at last seen the light of day; in other words, it is now on sale. But according to law it will not come into force until January 1, 1896. No fewer than 110 of the remedies mentioned in the last edition have been eliminated, and only 89 new ones have been added.

Proposed Alcohol-monopoly in Turkey.—The Turkish Government are said to have in consideration a scheme for the introduction of an alcohol-monopoly into the country. Alcohol is now one of the five articles the revenue from which is administered by the Public Debt. The Ottoman Government is favourable to the proposed monopoly, which would largely increase the revenues of the Administration of Public Debt.

Japanese Sundries.—At the exhibition which has recently been opened at Kioto, surgical and scientific apparatus, hardware, glassware, and chemicals manufactured in Japan are a prominent feature, and are displayed at prices which are reported to defy competition. Considering that labour is so cheap in Japan, and that the trade relations between that country and Europe are so well established, the hope is expressed that ere long Japanese merchants instead of importing some of these goods will actually export them to Europe and America.

German Chemical Dividends.—The profits of the Badische Anilin und Sodafabrik in 1894 were 7,390,110m.; in 1893 they were 7,702,466m. It is proposed to pay a dividend of 25 per cent. on ordinary shares. In 1893 and 1892 the dividend was 27 per cent.; in 1891 and 1890 22 per cent. The lowest dividend was 12 per cent. in 1884 The profits of the Elberfeld Dye-works (formerly Friedr. Bayer & Co.) for 1894 were 4 363,000m.; in 1893, 4,110,075m. The dividend will be the same as that for the three years immediately preceding—viz., 18 per cent.

Bacteria in Ceylon Aërated Waters.—Dr. P. M. Short, of Lindula, Ceylon, has been investigating the quality of the aërated waters sold in the island. Some neighbours of his had become ill, and suspecting the cause, he analysed some soda-water they had been using, and discovered typhoid germs in it. He then wrote to the papers warning consumers. He also sent a sample to the Colombo Municipal Analyst, who has replied that the well-water sometimes used by the manufacturer in question has, on examination, been found to contain excess of ammonia and large excess of nitrates. The well has accordingly been condemned as unfit for use.

Tea-growing in Russia.—The English were the first to demonstrate that the soil of certain localities of the Caucasus

exactly resembles that of those parts of China where the best kinds of tea are grown, but the first person who succeeded in growing the tea-plant in the Caucasus was the Russian Colonel Solovtsow, who had many difficulties to contend against. When he attempted to import plants from China, the Customs formalities greatly hampered him. The Custom-house officers went so far as to disinfect the plants for the prevention of phylloxera, believing them to be vines. The tea-plantations of Colonel Solovtsow are situated near Batoum. He began to cultivate tea nine years ago, and he has had excellent results. The first attempts to grow the tea-plant in the Caucasus were made thirty years ago, but they were not successful.

The Spanish Drug-trade.—From official figures just published, it appears that the imports of drugs and chemical products into Spain in the course of the last three years have been as follows:—

Year	1892	1893	1894
Value	£1,903,919	£2,107,419	£2,234,375

and the exports—

Year	1892	1893	1894
Value	£1,098,447	£915,135	£1,011,083

The more important increases in imports have been in alkaline carbonates and nitrate of soda. In cocoanut, palm oil, and other heavy oils there has been a considerable decrease, amounting, in 1894, to 80,000*l.* compared with 1893, and 160,000*l.* compared with 1892. The increase in the exports is principally of raw tartar, common soap, and wax candles. It may be noted that the amount of raw tartar and lees of wine exported to France has decreased, so that the increase is with regard to other countries.

Olive oil Making in South Italy.—The *Graphic* of April 7 prints a full-page drawing of an Italian olive-mill—a stone wheel in a mortar-like trough—worked by several picturesque women and a bad-looking if not bold man. It is explained that the olives are first gathered and then stored up in heaps till they are matured—*i.e.*, turned a brownish black; they are then placed in the mill, called the "pontana," which consists of a large circular trough in which revolves the mill-stone, which is worked by about three or four people. When the olives are reduced to a crushed mass of oil and pulp, they are taken out and placed in circular bags made of a kind of rush and placed in the press and squeezed, the oil running out into a large receptacle below. After the oil has been thoroughly squeezed out, it has to be removed from the large receptacle and placed in stone cases or jars. This is a most serious business, for during the process, which is begun by the man who has to ladle out the oil making the sign of the cross over it, no one is allowed to speak, and should anybody venture to make a remark he is promptly silenced by the onlookers.

Australasian News.

The following notes are based upon information contained in the March number of *The Chemist and Druggist of Australasia* Copies of this publication (price 6*d.* each) may be had upon application to the Publisher, 42 Cannon Street, E.C.

The New Zealand Tariff.—A Tariff Commission is at present sitting in Wellington, N Z, but so far the chemists of the colony have done nothing to bring before it their wishes with regard to Customs duties. It has been suggested that the chemists should appoint a deputation to call attention to the anomalies of the tariff, and to ask that better arrangements should be made with regard to the manufacture of spirituous preparations.

Pill making Competition.—Mr. Geo. Watkins, of Brisbane, recently offered a prize for the winner in a pill-making competition among local chemists. There were five entries, and the competition consisted of making three batches—the first, two dozen Blaud's pills; the second, one dozen pills of camphor and extract of hyoscyamus; and the third, one dozen pills each containing 1 minim of creosote. The time of the winner was—first batch, 7 min. 30 sec.; second batch, 8 min.; third batch, 4 min. This did not include the silvering of the creosote pills.

The "Australasian Association."—The next, or second, meeting of the Australasian Association for the Advancement of Science is to be held in Sydney in 1897. It is thought probable that on that occasion the President of the Pharmaceutical Society (of N.S. Wales) will be appointed Vice-president of Section B. The N.S.W. chemists are urged to rise to the occasion, and to elect as their president at next year's election a man "of the widest possible knowledge of the world, both scientific and social," so that he may be a credit to the profession at the forthcoming gathering.

The Resin from Ailanthus Imberbiflora Macartnei.—At the meeting of the Queensland Royal Society on February 16 last, Dr. J. Lauterer, of Queensland, read a paper on a resin from a new variety of *Ailanthus imberbiflora*—namely, *Macartnei*. This resin, which exudes in large quantities from the tree when wounded, lost 20 per cent. of water when heated to 100° C., and when heated above this yielded a peculiar fatty oil, which had somewhat the perfume of bitter almonds. In rectified spirit the purified resin deposited 5 per cent. of arabin. In the lecturer's opinion the purified resin could be used for birdlime, for softening hard and quickly-drying varnishes, to replace Canada balsam for mounting microscopic objects, and by pharmacists for making soft plasters on abscesses for wounds, as it protects the surface and does not irritate.

Early Closing in New Zealand.—Some of our politicians are fond of pointing to New Zealand as the country which leads the van in social legislation. Perhaps, therefore, the British Shop hours Bill promoters will study the working of the Compulsory Closing Act which has recently come into force in New Zealand, to which we have referred in some preceding Australasian notes. The Act does not appear to work very smoothly as yet. In Wellington, "Wednesday has been decided upon, after a great deal of trouble, as the closing day under the Shop-hours Bill. At present there is a great deal of complaining and dissatisfaction on account of the many exemptions, and it is yet doubtful whether the inspectors will be able to see the Act carried out in its present form. There is a clause in the Act providing that those who do not want to close on the day selected by the majority may close on Saturday by giving notice to that effect before January 31. Several shopkeepers, thinking it to their advantage to be open when the others are shut, gave notice, and now keep open on Wednesday and close on Saturday afternoon; amongst these are Barraud & Son, the chemists. Chemists are allowed to sell necessary articles on the half-holiday, and the difficulty of settling which articles are 'necessary' and which are not seems almost insuperable. Commercial travellers complain very much that the various days adopted by different towns make it difficult to arrange their journeys without great waste of time. It seems certain that the Government will see that the Act in its present form will not work satisfactorily, and will amend it next session."

Victorian Chemists and the Customs Tariff.—A Tariff Board has been sitting in Victoria for some time taking evidence concerning the Customs tariff of the colony. A number of wholesale and retail chemists gave evidence before it, the following being some of the most interesting statements made:—Mr. H. A. Woolnough, representing Bowen & Co., chemists, Melbourne, said that the present tariff had greatly harassed chemists, not so much by raising duties as by the unsatisfactory classification, which left great uncertainty as to the duties to be paid on many articles. The amount of the duty depended chiefly upon the clearing officer and the labels affixed to the articles at home. The goods might pass free at one time, and be charged 25 per cent. duty the next. With reference to goods packed for retail sale and consumption, on which a duty of 25 per cent. was charged, it was impossible to draw the line between retail and wholesale. Ounce packets of camphor and pounds of vaseline were reckoned retail packets in some cases. An ounce of pepsin was neither wholesale nor retail. Sometimes 25 per cent. was charged on it; sometimes it was free. Then, on many lines a double duty was

charged. A liquid medicine might be charged 25 per cent. as a patent medicine, then 1 per cent. primage, and then 3*d.* a dozen on bottles, and this on lines which had already paid duty amounted to a good deal. Opium preparations were charged 20*s.* per lb., even if they contained only 1 or 2 per cent. of opium. Battley's solution of opium cost at home 16*s* per lb.; the duty was 20*s.*, although it only contained about 25 per cent. of opium. The duties on infants' and invalids' food should certainly be removed, as many of these foods were used only for infants or invalids. The price now was exceedingly high, the duty being 20 per cent. This applied also to essences of meat. With reference to bottles, although in some cases the duty on bottles containing other articles had been reduced to 3*d.* per dozen, that on mineral-water bottles had been retained at 6*d.* per dozen. These bottles were utterly useless, and in most cases the bottles used for medicines were absolutely useless for other purposes, as the name was branded on them. Chemists now used largely bottles made in Victoria. On brushware a duty of 35 per cent, was charged. No hair, tooth, or nail brushes, good enough for chemists' sale, were made in Melbourne. The finish of the brushes made in England was much better. Flesh-brushes, made of indiarubber, are not charged duty if imported under their proper name of flesh-rubbers, but if the invoice happened to describe them by the usual trade-name of indiarubber flesh-brushes a duty of 35 per cent. was charged. This was an illustration of the difficulty of the classification. Mistakes made in invoices in England, or giving articles their usual trade-names, which were not in all cases accurate, or labelling goods in a certain way, would often lead to the imposition of a duty which ought not to be charged. If witness were in a large way of business he would send home a clerk acquainted with the Victorian tariff, not to dodge the Customs and avoid paying duty which was legitimately imposed, but to secure fair play. Mr. Henry Francis, of Henry Francis & Co., pharmaceutical chemists, said that they were taxed on bottles, cork, leather, string, everything that was used in preparing their medicines, and primage was placed on the top of that. The inconsistencies were innumerable. Antitoxin, a new remedy for diphtheria, had been extremely difficult to obtain. His firm had imported three doses by post, and because the label bore the word "Diphtheria" they were charged 2*s.* duty for each dose. Had the word not been on the label they would have come in free. In another case, inflators happened to be invoiced as bellows, and were charged 30 per cent. Had they been given their own proper name they would have been free. Mr. D. R. Simpson, of Simpson & Davenport, chemists, said they did very little manufacturing. His firm recently imported some opium lozenges, the value of which was trifling, and the amount of opium they contained very small. They had to pay 20*s.* a pound duty, and there were many other little things in the same way. As regards brushware, his firm imported largely. Had never seen any Victorian-made tooth, nail, shaving, cloth, bath, or camels'-hair brushes. Had seen a few hair-brushes, but the quality was such that his firm would not show them, and never kept them in stock. The duty of 35 per cent., with 10 per cent. added to the invoice-value, made it 38½ per cent. There were only a few noted brushmakers in the world—Kent (of London) and one or two others—and he had been told that when these had had the pick of the bristles in the world's market nothing of good quality was left for export. Mr. J. E. Green, representing Duerdin & Sainsbury, importers, wholesale druggists, and suppliers of chemists, said that the only perfumery made in Victoria was in the very cheap lines sold by fancy-goods warehousemen. As regards the fixed duties on drugs, liquid ammonia was made in the colony; carbonate of ammonia was not, and he did not see why a duty should be imposed. Strychnine was largely used for the destruction of rabbits, and should be free. Brushware, equal in quality to Kent's, was not likely to be made in Victoria for the next half-century. Mr. J. K. Blogg, of Blogg Brothers, complained of the duty of half-a-crown a foot, outside measurement, on cut-glass bottles. These bottles, being more valuable, were packed more carefully, and consequently the bulk was increased, and the half-crown a foot became a heavier tax. These goods could not be made in the colony, and the duty should be reduced to the old rate of 1*s.* a foot. He found the duty on dispensing-bottles so high that he had ceased to import them, especially as they were being well made here. Bottles of half-a-drachm up to a drachm contents, were admitted free if full. While the duty was 1*s.* a foot he imported large quantities to be filled with various things for distribution as samples. As the duty was so high his firm had had them filled in Germany, and so imported them free. It is true that if filled with water they would come in free, but the cost of doing this would be too high. The articles used in the preparation of bottles of perfumery were nearly all of them taxed, and should be free. The duty on corks is now 4*d.*; should be reduced to 2*d.* He could not get them made here, as the price is prohibitive. The only corks manufactured in the colony are large sizes. He had never seen any colonial corks suitable for a 4-oz bottle for chemists' and essence-makers' use. Mr. E. N. Grimwade, of Felton, Grimwade & Co., manufacturing chemists, said their business was mostly affected by the patent-medicine clause in the tariff-regulations. It was practically a drag-net, and its most pernicious effect was the uncertainty as to its operation, because they never knew what would or would not be taxed. There was an anomaly in regard to camphor, which, when made up in 1-oz. tablets and enclosed in 1-lb. boxes, was considered as being ready for retail sale, and was, therefore, charged 25 per cent. duty; but if his firm wrote to the manufacturer in England to make it up in 2-lb. boxes it would escape the duty. Spirit was largely used as a preservative in medicines, and had to pay 15*s.* per gallon as proof-spirit, though it was nothing near proof. This made the medicines very dear. There was also an anomaly in the case of bottled oils, which paid three duties—first, 3*d.* a dozen on the bottles; second, 1*s.* a dozen on the oils; and third, the primage duty, in which the value of the bottles was also charged. It was a great drawback to the chemical industry that a heavy duty was imposed on the delicate machinery which had to be used by chemists. The machinery was in the majority of cases patented, and though his firm would like to have the machinery it wanted made in the colony, they feared that the delicate parts could not be made equal to the machinery turned out in England or Germany. The machinery to which he particularly referred was that used in the compression of gases, and was largely used for refrigerating and preservative purposes.

THE DELIVERER.

By the Speckled Leech, and the Grey green Fly, and the Big
Sperm Whale he swore
That the day would come when the whole of our tribe would
hail him with open door,
As the Angel of Joy came to lighten the lot and soften the
pharmacist's fate;
But the days have gone and the years have fled, and we wait,
and wait, and wait.

By the Pestle's Clang, and the Nightbell's Shrill, and the
Howl of the Errand-boy,
He swore that he'd make the Greybeards weep glad tears of
a pent-up joy.
When he rose in his wrath, 'mid the slaughtered hopes of the
limited-company fiend,
And swam in the gore of the cutter galore, from the ways of
true pharmacy weaned.

By the Guv'nor's Beard, and the Porter's Growl, and the Soul
of the Great Carteighe,
He swore he would smite with his gorgeous might, and set
our kindred free
From the Council's thrall, and the doctors' gall, and the
patent-medicine boom—
And we wait, and we hope, and our hearts are glad, as we gloat
o'er their gruesome doom.

By the Tincture-press, and the Six-ounce Flat, and the
Leechbite Teat he swore
That his speech would make all the shirkers quake, and we'd
live, as in days of yore,
In a brotherly love and a plentiful peace, with our enemies
all struck dumb:
All this he swore—ay, more and more; but his time has not
yet come.

W. C.

Pharmaceutical Society of Great Britain.

NORTH BRITISH BRANCH.

A MEETING of the Executive of the North British Branch of the Pharmaceutical Society was held on Friday, April 19, Mr. J. Laidlaw Ewing in the chair. The report of the General Purposes Committee, which was of a formal character, was read by Mr. J. RUTHERFORD HILL (Assistant Secretary), and adopted.

THE ANNUAL REPORT.

Mr. J. R. Hill also read the annual report to be submitted to the Council in London, which was considered by the Executive in committee. The CHAIRMAN stated that the estimated cost of the new hall and laboratories in York Place amounted to 2,500*l.*, but they expected that that sum had been exceeded by about 600*l.*, owing to the workmen having to work overtime to finish within a certain time and on account of certain extras being included.

Mr. KERMATH, St. Andrews, moved the approval of the report. He said it was a very satisfactory report. Nobody liked to hear of the expenditure being exceeded, but he thought they had reason to congratulate themselves upon it. He was glad to hear that the new arrangements for the examiners of having professors on the Examining Board had turned out a great success. He never had much doubt about it himself, and had a feeling that it was a desirable thing.

Mr. FISHER, Dunfermline, seconded the adoption of the report, which was unanimously agreed to.

THE NEW PREMISES.

The CHAIRMAN stated that the new hall had now been completely fitted up, and that the examiners were satisfied with the arrangements. Experience had indicated some matters in minor details, and a committee of the Board of Examiners had been appointed to confer with the Chairman of the Executive with the view of having these slight alterations carried out. The opening of the new portion had necessitated some rearrangement of the old premises, and he suggested that the Executive should appoint a committee to go into the subject and prepare a report for the Council.

This was agreed to, and the Chairman and Messrs. Nesbit and Lunan were appointed a committee for the purpose.

Mr. STORRAR (Kirkcaldy) said that, before leaving the subject of the annual report, he thought they should enter on their minutes some formal recognition of the great amount of trouble taken by Mr. Ewing and Mr. Hill in connection with the new buildings. He moved that a hearty vote of thanks should be accorded to those gentlemen.

This was seconded by Mr. KERR (Dundee), and carried.

The CHAIRMAN briefly thanked the Executive.

ELECTION ARRANGEMENTS.

On the motion of Mr. SUTHERLAND, seconded by Mr. DAVIDSON, it was agreed that the next election of Executive should take place on June 21, and the Chairman and Vice-Chairman, with power to add to their number, were appointed scrutineers of the voting-papers.

METRIC WEIGHTS AND MEASURES.

Mr. J. R. HILL read a letter from the Edinburgh Decimal Association, requesting the Executive to give their assistance to the present movement for the general adoption and legalisation of the metric system of weights and measures in this country.

The CHAIRMAN said he thought they should not do anything in the matter. It had already been considered by the Council in London, and the President had been appointed to appear as a witness before the Parliamentary Commission. He believed the Commission had more evidence offered than they could take.

Mr. LUNAN suggested that the subject be discussed at the next evening meeting of the Branch, to get an expression of opinion.

The CHAIRMAN said Mr. Lunan might bring the subject up at the meeting, but they could not remit it in that way.

It was agreed to take no action with reference to the letter.

THE SALE OF METHYLATED SPIRIT.

Mr. SUTHERLAND referred to the subject of the sale of methylated spirit on Sundays by medical prescription, and suggested that the Inland Revenue authorities should be communicated with, so as to have some proper understanding as to what should be done in such cases. He said that some chemists in Dumfries had been supplying spirit, and sending the order for it to the supervisor in the district, but they did not know whether that should be done or not. He understood that several attempts had been made to obtain sales on Sundays by presenting fictitious medical prescriptions. The Inland Revenue officers seemed to be doing this in order to find out whether chemists were obeying the law.

The CHAIRMAN said that in a recent issue of THE CHEMISTS' AND DRUGGISTS' DIARY there was a statement that the Inland Revenue authorities had intimated that they would not interfere in such cases as Mr. Sutherland had referred to.*

Mr. CURRIE (Glasgow) said the Inland Revenue authorities had on several occasions in Glasgow attempted to obtain sales in the way mentioned by Mr. Sutherland. He himself had been tried by a Revenue officer, whom he happened to know, and, of course, he did not supply him.

Mr. NESBIT (Portobello) said that when he had applications for methylated spirit on Sundays he got the people to get the doctor to mark on the order that it was to be used for a bronchitis-kettle, and when that was done he supplied it.

Mr. CLAUDE HENRY said that one chemist had supplied spirit on Sunday, and sent the order to the Inland Revenue authorities, but they took no notice of it.

Mr. KERMATH said this was one of those cases where the less that was said the better. There had been no prosecutions for such sales, and no cases in which the Revenue authorities had interfered.

The subject then dropped.

THE PUBLICATION OF THE EXAMINATION-LISTS.

Mr. STRACHAN (Aberdeen) drew attention to the recent change in the publication of the names of successful Major and Minor candidates, and expressed a desire that the old arrangement should be continued, by which not only the names but also the addresses of candidates were published.

It was remitted to the Scottish members of Council to draw attention to this subject at the Council meeting in London.

This was all the business.

APRIL EXAMINATIONS.

THE first lot of candidates examined by the Board of Examiners in London this month had their fate decided last week. For the

MAJOR DIPLOMA

there were 32 candidates, and only 12 of them got through, viz.:—

Banks, Edward Herbert Hardy
Brown, William James
Bryant, Nicholas John Andrew
Elliott, Oliver Thomas
Gaul, Ernest George
James, David Griffith
Morrey, George
Pearce, Seymour Rowland
Prior, James Siddall
Thorp, Ernest
Tree, John
White, Henry Fox

THE MINOR CERTIFICATE

was secured by the following:—

Armbrecht, Ernest Louis Nelson
Attenborough, Harold Langley
Baker, Daniel Sebbon
Bastow, Sidney
Bateson, Alfred Campbell
Beaton, Edward
Bond, John Henry Price
Bowden, Harold
Bridges, Herbert
Brown, Harold
Brown, Herbert Cecil
Chambers, William Banks
Clayton, George Francis
Compton, Richard William
Cooper, Burton Frederick John
Cuff, Sidney Wilmot
Dawson, Henry Gray Woodhouse
Elwards, William Richard
Evans, Evan Lewis
Ferguson, Howard
Flower, John Scott
Forster, Horace Reginald William
Giles, Lewis John
Greaves, Ernest Walter

* We cannot trace any statement of this kind in THE CHEMISTS' AND DRUGGISTS' DIARY.—ED. *C. & D.*

Green, George Turton
Gwinn, Frederick Walter
Harries, John Davies
Heden, Joseph Henry
Hemming, William Hubert
Hunt, Henry Lionel
Jessop, Harry
Jones, Joseph
Kinsman, William Ernest
Knowles, Charles John
Laing, Joseph Lythall Leigh
Lee, Arthur
Lilly, Arthur
Mace, Lewis Albert
Marsh, Albert
Maunder, William Henry
Moore, Francis Ayrton
Oliver, Gwilym Emrys

The following constitute the second lot who were granted Minor certificates:—

Cashmore, Montague
Ibbotson, Oswald
Pentney, Fred
Pickford, Arthur Ferdinand
Pratt, William
Pryke, Harry Kenneth
Read, Harold McLean
Robinson, Ernest Temple
Sayers, Frederick William
Simnett, Herbert Frank
Snell, William Kennard
Smith, Rowland
Sparks, Percy
Stoddart, James George Young
Tinker, Harold
Usher, Alfred Musgrave
Walmsley, Martyn
Wells, Robert Joseph
Widgery, Ernest
Willson, Robert Wherry
Yates, George William

We are indebted to the Registrar of the Society for the foregoing list.

Legal Reports.

COCA WINE IN "REPUTED PINTS."

At the Torquay Police Court, on Wednesday, April 18, Edwin A. Holloway, chemist, of Fleet Street, Torquay, was summoned under the 19th section of the Weights and Measures Act, 1878, for selling coca wine other than by imperial measure. Mr. F J. Carter appeared for the defendant, who pleaded not guilty.

Mr. T. J. Edwards, Inspector of Weights and Measures, stated that on March 26 he went to the defendant's shop and purchased a pot of tooth-paste. After he had made his purchase, Detective Pratt entered the shop and asked the assistant for a pint of coca wine, which he received and paid for. He afterwards asked the assistant if it was a pint, and the assistant replied, "Well, no; it is a reputed pint." Pratt then asked him (witness) if he would measure the contents of the bottle, which he did in the presence of the defendant. The bottle contained ½ pint and barely ½ gill. Mr. Holloway said he only intended it to be a reputed pint, and thought it very hard he should be trapped in that way. The outside covering of the bottle stated the price of pints and quarts, and also the price of sample-bottles, 1*s.* 6*d.* On a paper enclosed 1*s* 6*d.* was mentioned as the price of pint bottles. Mr. Edwards proceeded to quote from a newspaper advertisement, but

Mr. Carter objected, and said the contract under which the information was laid must be adhered to.

The Bench upheld this view.

In reply to Mr. Carter, the Inspector stated that he administered no caution to the defendant prior to instituting proceedings.

Detective Pratt corroborated as to the purchase of the wine, and the conversation which followed.

Mr. Carter, for the defence, held that, under the 22nd section of the Act, Mr. Holloway was not responsible, for nothing in the Act prevented him selling anything in a vessel where it was shown that such vessel was not used or intended for use as a measure. There had been no representation that the bottle contained an imperial pint. The sample-bottle was sold at 1*s.* 6*d.* Mr. Holloway was protected by his licence, and inasmuch as he did not effect the sale was not liable, as he had previously given instructions to his assistants to sell the sample-bottles at 1*s.* 6*d.*, but not as pints. The bottle was sold to Pratt, and not a certain measure. That was the custom, too, with champagne.

The Magistrates' Clerk: You cannot get a pint or quart of champagne. It is sold in bottles or half-bottles.

Mr. Carter, continuing, characterised the proceedings against his client as a "plant." He was not treated as other people, who were cautioned and given an opportunity of correcting anything which might be wrong. The case was the most trivial he had ever defended in his life.

Frederick Douglas Bray, chemist, and assistant in the employ of the defendant, stated that he had been instructed to sell coca wine at 1*s.* 6*d.* and 2*s.* 9*d.* per bottle. He sold the bottle to Pratt, who, as far as he could remember, asked for a pint bottle.

The Bench inflicted a fine of 10*s.*, including costs, and, in reply to Mr. Carter,

The Chairman said the Bench would be willing to state a case.

SALE OF FELLOWS'S SYRUP.

At the Carnarvon County Court, on April 17, Sir Horatio Lloyd gave judgment in the action in which the Pharmaceutical Society sought to recover a penalty from Messrs. Evans & Lake, grocers, &c., Carnarvon, for selling Fellows's syrup of hypophosphites, which contained strychnine among its ingredients. The sample-bottle upon which the action was based was purchased (as reported in our issue of March 30) at the defendants' shop by Mr. T. J. Hughes, a Bethesda chemist; but it was argued on behalf of the defendants that, although they had been in the habit of selling Fellows's syrup, its sale had been withdrawn at the time the alleged purchase was made, and Mr. Hughes's evidence was thus impugned.

His Honour, in giving his decision, said, in the first place, that Mr. Hughes had bought the bottle at the defendants' shop. It was only right, however, to say that he believed in the *bona fides* of Messrs. Evans & Lake's intentions. Seeing this medicine scheduled in the list of goods prohibited to be sold by unregistered chemists, they no doubt did intend to withdraw the medicine from sale, but he was afraid that it was one of those good intentions which were not carried out. He gave judgment for the plaintiff Society, with costs. Replying to the defendants' solicitor, his Honour said that he could not allow an appeal on the question of law, but granted a stay of execution for a month to give them an opportunity of moving for a new trial.

AN ASSISTANT FINED FOR SELLING CHLORODYNE.

On Monday Judge Greenwell, sitting at the Newcastle County Court, had before him an action brought by Mr. Richard Bremridge, Registrar of the Pharmaceutical Society of Great Britain, under the Pharmacy Act, 1868, against Ernest Fleming, chemist's assistant, 114 Westgate Road, Newcastle, to recover 5*l.*, the penalty prescribed by the Act, for having, on December 31, 1894, sold a quantity of poison—to wit, morphine—contained in a preparation known as Dr. Collis Brown's chlorodyne, contrary to the provisions of the Act Mr. Grey, barrister, London, appeared for the Pharmaceutical Society; and Mr. Edward Clarke, Newcastle, defended.

Mr. Grey explained the nature of the action, and stated that defendant was an assistant with Mr. Davidson, chemist and druggist, of 114 Westgate Road, Newcastle. On December 31, last year, he sold a bottle of Dr. Collis Browne's chlorodyne, which was proved to contain morphine to the extent of 1 gr. Morphine was a poison under the schedule of the Act. It was illegal for any person not registered under the Act as a chemist and druggist to sell poisons.

Mr. Clarke said he would not dispute the facts. The defendant, who was an assistant, receiving 8*l.* per year, had sold the drug to one of the officers of the Society or someone else in the usual course, believing it to be a patent medicine. Of course his client would have to bear the brunt of the business, and would have to have judgment given against him.

His Honour: Is he absolutely prohibited from selling poisons?

Mr Clarke said he certainly thought it was the duty of masters, who could not be got at under this section, to lock away from their apprentices poisons of that nature, and he thought that the interests of society and the Pharmaceutical Society would be well served by making the matter public.

His Honour gave judgment for the plaintiffs, with costs.

UNSTAMPED EMBROCATION.

A summons brought by the Inland Revenue authorities was heard on Tuesday against John Kirby Pilkington, veterinary

surgeon, carrying on business in Fox Street, Liverpool, for selling a patent medicine for human use without, at the same time, having to the same affixed a revenue stamp. It is supposed that defendant sold a species of embrocation for animal use, and a somewhat similar kind for human use. The latter bore a stamp, but it was contended by the Revenue authorities that the former kind had been supplied for human purposes, thus evading the stamp-duty. An officer deposed to having called at the defendant's shop and asked for a bottle of "Liverpore's Embrocation," as it was called. They did not ask him whether he wanted it for human or animal use, but supplied the bottle produced, which was intended for horses.—The full penalty was 10*l.* and costs, and Mr. Stewart imposed a penalty of 40*s.* and costs.

Bankruptcy Reports.

Re Robert Hanworth Ives, 83 Ber Street, Norwich, trading as Chemist and Druggist.

The accounts filed show unsecured liabilities 188*l* 8*s.* 4*d.*, and assets estimated at 37*l.* 16*s.* 5*d.*, or a deficiency of 150*l.* 11*s.* 11*d.* Cause of failure "want of capital, competition, bad trade, and expenses of a large family." The Official Receiver states debtor presented his own petition, consequent upon several judgments having been obtained against him. He has been in business at his present address since March, 1883, at which time he had a capital of about 20*l.* No proper books have been kept, and there is no record of cash receipts or payment. He has been insolvent for some years, and first became aware of his position in 1890. An order for the summary administration of the estate has been obtained. The following are creditors:—

	£	s.	d.
Boughton, H., Norwich	10	12	6
Hockin, Wilson & Co., London	14	18	6
Kerry, Norwich	10	0	0
Lofthouse & Saltmer, Hull	24	2	0
Mutual Loan Fund Society, Norwich	16	0	0
Smith, W., Norwich	12	10	0
Tidman & Sons, London	17	0	0

Re Thomas Skentelbery, London Road, Bicester, Chemist and Druggist's Assistant.

The Official Receiver's statement of this debtor's affairs show liabilities expected to rank 81*l.* 13*s* 8*d*; assets estimated to realise 40*l.* The Receiver observes that the receiving order was made on debtor's own petition. He has been an assistant to a chemist and druggist at Bicester for the past four years, and his engagement was unexpectedly put an end to, and he was unable, when suddenly called on, to pay his creditors in full. Debtor has also acted as an agent to a cycle company. Early this month an execution was levied by a creditor on his furniture, but the amount of the levy was paid by debtor's solicitor to the bailiff. Debtor has kept no accounts, except a banker's pass-book. His salary was 32*s.* a week.

Re Thos. Lloyd Morgan (trading as Morgan & Francis), Chemist, &c, Medical Hall, Llandovery and Carmarthen.

The accounts filed under this failure show liabilities to unsecured creditors 2,272*l.* 4*s.*, to fully secured 818*l.* (established value of securities 850*l.*, surplus of 32*l.* to *contra*); to partly secured 3,727*l.* 11*s.* 6*d*, less estimated value of securities 1,043*l.* 12*s.* 6*d.*, leaving 2,683*l.* 19*s.* to rank; to liabilities on bills, 200*l.*, not expected to rank; to contingent or other liabilities, 410*l.* 9*s.* 5*d.*, of which 130*l.* is expected to rank—total, 5,086*l.* 3*s.* Assets consisting of cash at bankers', 3*s.*; cash with solicitor, 5*l.*; stock in trade (cost 223*l* 0*s.* 10*d.*), 133*l.* 16*s.* 6*d.*; machinery, 38*l.* 3*s.* 6*d.*; trade fixtures, &c., 49*l.* 14*s.* 6*d*; furniture, 79*l.* 12*s.* 6*d*; horse, waggon, &c., 20*l.*; book debts, 360*l.* 15*s.* (expected to produce 39*l.* 7*s* 6*d.*); bills of exchange, 38*l.* 7*s.* 11*d.* (of no value); surplus from securities, 32*l*—making 398*l.* 2*s.* 6*d.*, less 150*l.* 17*s.* 11*d* for preferential claims, which leaves 247*l.* 4*s.* 7*d.*, or a deficiency of 4,838*l.* 18*s.* 5*d.* The debtor's explanation of the causes of the failure were reported in our issue of April 13. The Official Receiver, in the course of his observations, recapitulates the debtor's principal statements, and says that the debtor for twenty years or so has been engaged, in conjunction with his brother, in sheep-farming, which, he states, has been fairly remunerative. The books of account have been imperfectly kept, and no balance-sheets have been prepared at any time. The debtor mortgaged his business premises, the Medical Hall, Llandovery, in 1870, to secure 600*l.* and interest, and in 1880 gave a second charge thereon for 200*l.* On February 16 last he executed a bill of sale of his moiety of sheep in favour of his brother, John Morgan, the consideration being 242*l.* 10*s.*, cash advanced, and 950*l.*, for which the said John Morgan had become surety. The Official Receiver is informed that Mr. John Morgan has expressed his intention of withdrawing his claim under this document. An execution for 160*l.* had been levied on debtor's effects at the date of the receiving order, but has since been stayed. A distress was levied upon debtor's effects at Llwynwormwood Park on March 12 for 156*l.* 14*s.* 8*d*, being six months' rent and arrears, and on March 14 a further levy was made upon 239 sheep, which, the debtor states, were on the land on tack. A sale under the distress, it is understood, will take place at an early date, as the Official Receiver does not deem it expedient to guarantee payment, but the landlord's solicitors have been informed that the distress is not availab'e for the arrears. The following is a copy of the deficiency account submitted by the debtor:—Net profit from business from March, 1888, to date of receiving order, seven years at 70*l*, 490*l.*; profits from sheep-walks, seven years at 50*l.*, 350*l*; profit from Llwynwormwood, seven years at 20*l*, 140*l.*; deficiency, 4,838*l.* 18*s.* 5*d.*—total, 5,818*l.* 18*s* 5*d.* Bad debts, 321*l* 7*s.* 6*d.*; household expenses from March, 1888, seven years at 80*l.*, 560*l.*; depreciation of stock, plant, &c., 250*l.*; depreciation in different investments for their value in 1888 to the present time, 3,000*l.*; bank charges, discounts, &c., 1,039*l.* 10*s.* 5*d.*; interest on borrowed money, seven years at 110*l.*, 770*l.*; insurances, seven years at 13*l*, 91*l.*; legal expenses, seven years at 10*l.*, 70*l.*—total, 6,101*l.* 17*s.* 11*d.* The following are creditors:—

	£	s.	d.
Andrews, Mrs., St. Clears	20	0	0
Archer, Henry, & Co., London	18	0	6
Carter, Hodges & Co., London	15	9	9
Chemists' Association, The, London	54	0	0
Coohen, W., & Nephews, Berkhampstead	33	11	
Cooper, Faber & Co., London	53		
Curtis & Harvey, Swansea	18	1	11
Davies, J., Llangadoek	10		
Davies, J., Llanwrda	25		
Eley Brothers, London	10	0	
Evans, Rev. J., Llandovery	13	17	
Greenslade, E. A. & W., Bristol	10	0	0
Halloway, Mrs. B., Newport	100	0	0
Hare, J., & Co, Bristol	31	14	6
Hearon, Squire & Francis, London	42	0	0
Huddin & Co. (Limited), Bristol	10	10	0
Hurst & Son, London	10	0	0
Jones, David & Co., Liverpool	15	2	6
Jones, D., Llandovery	79	19	8
Jones, Thomas, Llandovery	108	3	0
Francis, T., Carmarthen	50	0	0
Morgan, Mrs. W. W., Walpole	99	14	0
Mortimer, James B. A., Ashburton	150	0	0
North British, &c, Insurance Company, Cardiff	23	13	11
Price's Patent Candle Company, London	10	6	1
Prugnell, O., & Co., Bristol	10	1	5
Richardson, J. Clarke, Swansea	429	18	0
Scott, Rev. W., Haverfordwest	200	0	0
Silber & Fleming, London	20	3	0
Sumner & Co, Liverpool	10	0	0
Sutton, W., & Co., London	160	17	5
Thomas & Evans, Llanelly	10	0	0
Williams, J., Llandovery	135	0	0
Wills, W. D. & H. O. (Limited), Bristol	31	14	3

Fully Secured Creditors.

Evans, W., Llandovery	200	0	0
Morgan, Mrs. A., Abergavenny	600	0	0
Morgan, Mrs. A., Abergavenny	18	0	0
	818	0	0

Partly Secured Creditors.

Bankers, Llandovery	2,427	3	1
Bankers, Llandovery	100	0	0
Bankers, Llandovery	12	11	6
(Estimated value of security, 350*l.*)			
Bankers, Llandovery	425	0	0
(Estimated value of security, 25*l.*)			
Morgan, J., Llandovery	262	16	11
Morgan, J., Llandovery	500	0	0
(Estimated value of security, 668*l.* 12*s.* 6*d.*)			
	3,727	11	6
Liabilities on bills	200	0	0
(Not expected to rank.)			

Contingent Liabilities.

Bankers, Carmarthen	130	0	0
Davies, J. P., Carmarthen	21	10	0
Hodgkinson, Stead & Co., London	13	17	9
Lamb, J., & Co.	34	13	4
Peel, T., & Son	17	15	10
Prosser, D., Carmarthen	80	0	0
Price & Son, Bristol	35	8	0
	410	9	5
(Of which 130*l.* is expected to rank.)			

Preferential Creditors.

Rates, taxes, &c.	30	2	6
Rent	106	3	0
Sheriff's charges (estimated at)	14	12	5

Gazette.

PARTNERSHIPS DISSOLVED.

Morris, J., and **Morris, G.,** under the style of Morris & Co., patent-medicine vendors, Leicester.

Sanderson, W., and **Annison, R. B.,** under the style of W. Sanderson & Co., wholesale druggists, ship store, general, and provision merchants, Sunderland and Cardiff.

Woodhouse, E. E., and **Johnson, E.,** under the style of Mason and Johnson, medical and surgical home, Henrietta Street, Cavendish Square, W.

THE BANKRUPTCY ACTS, 1883 AND 1890.

ADJUDICATIONS.

Estabrook, Charles Eugene, Huddersfield and Halifax, dentist.
Phillips, Herbert, Wellington, aërated-water manufacturer.

New Companies and Company News.

Sorpresa Antimony Mines (Limited). — Capital 16,000*l.*, in 1*l.* shares (of which 6,000 are 10-per-cent cumulative preference). Objects: To enter into an agreement with Lart & Co. (Limited) to acquire antimony and other mines, mining rights, minerals, concessions, patents, licences, &c., in Spain or elsewhere, and to mine, sell, and deal in antimony and other minerals. The first subscribers (who each take one share) are:—A. E. S. Olivieri, 277 Ladbroke Grove, W., gentleman; S. Enever, 22 Glenparke Road, Forest Gate, accountant; W. J. Chandler, 12 Gower Road, Forest Gate, warehouseman; W. T. Wilkinson, 10 Howard Road, Stratford, oil and colourman; W. Aumonier, junior, 82 St. Paul's Road, N.W., artist; J. Pouten, 41 Hornsey Rise, N., retired; H. A. Taylor, 217 Hornsey Rise. N., solicitor. The first directors (to number not less than three nor more than five) are to be appointed by the subscribers. Qualification, 100 shares. Remuneration, as the company may decide.

Edward Aspinall (Limited).—Capital, 15,000*l.*, in 1*l.* shares. Objects: To acquire, take over as a going concern, and carry on the business of a manufacturer of cosmetics, soaps, and other proprietary articles, carried on by H. E. Aspinall at Rathbone Place, London. The first subscribers (who each take one share) are:—H. E. Aspinall, 26 Clanricarde Gardens, Bayswater, manufacturer; E. T. Aspinall, same address, lieutenant; C. E. Turner, 8 Teddington Park Road, Teddington, works manager; C. L. Green, 128 Bayham Street, N.W., clerk; F. J. Burr, 32 Aldford Street, W., solicitor; A. A. Harden, 75 Monson Road, New Cross, S.E., shorthand writer; C. R. Woolley, 4 Courthope Road, Hampstead, clerk. Registered without articles of association.

Franz Josef Water Company (Limited).—Capital 5,000*l.*, in 1*l.* shares. Objects: To acquire the business now carried on by the Franz Josef Water Company, to acquire mineral springs, and to manufacture, sell, and deal in mineral and aërated waters, and all drinks and articles sold by licensed victuallers, publicans, grocers, and chemists. The first subscribers (who each take one share) are:—P. Collingwood, 4 Sussex Place, Leadenhall Street, E.C., merchant; F. J. Vink, 62 Argyll Road, Brixton, clerk; J. R Breading, junior, 235 Hainault Road, Leytonstone, clerk; W. J. Manson, 20 Brook Street, Kennington, warehouseman; A. Craggs, 1 Powerscroft Road, Lower Clapton, clerk; J. Hart, 22 Great Winchester Street, E.C., solicitor; E. C. Price, The Beeches, Southend, accountant. Registered without articles of association.

Hanger, Watson & Harris (Limited). — Capital, 50,000*l.*, in 10*l.* shares (2,500 5*l.*-per-cent. cumulative preference). Objects: To acquire, take over as a going concern, and carry on the business of paint, colour, whiting, varnish, and anti-fouling composition manufacturers, oil boilers, general merchants, importers, and drysalters, carried on by Edward Hanger, George Watson, and Simon Harris, under the trade style of Hanger, Watson & Harris, at Stoneferry, in the Borough of Kingston-upon-Hull, and to enter into an agreement with the said vendors. The first subscribers (who each take one share) are:—E. Hanger, colour manufacturer, Mrs. E. Hanger, and E. Hanger, junr., commercial traveller, of Stoneferry, Hull; G. Watson, colour manufacturer, and Mrs. G. Watson, One Oak, Brockley Park, Forest Hill, S.E.; S. Harris, colour manufacturer, and Mrs. S. Harris, 389 Beverley Road, Hull. The first directors (to number not less than three nor more than five) are the three vendors. Qualification, 500*l.* Remuneration, as the company may decide. Registered office, Stoneferry, Hull.

Medical Herbalists' Defence Union (Limited).—No capital, but having a membership of not more than 300, who are each liable for 5*l.* in the event of winding up. Objects: To support and protect the character and interests of medical herbalists practising in the United Kingdom, and to promote honourable practice and devise means whereby the public may be enabled to distinguish between the legitimate practice of medical herbalism and the practices of those who simply trade on its honoured name to its detriment and injury. The first subscribers (who are all described as medical herbalists) are: Wm. H Parry, 3 Church Street, Bootle; Henry Potter, 5, 6 and 7 Raven Row, London; Alfred R. Fox, 56 Sing Hill, Sheffield; Wm. Parker, 272 Fitzwilliam Street, Sheffield; Jas. W. Scurrah, 1022 Leeds Road, Bradford; Jas. Parkinson, 17 Lees Road, Oldham; Jno. Simmons, 94 Shakespeare Street, Southport. The management of the affairs of the union is vested in a council consisting of a President, three Vice-presidents, Treasurer, Secretary (first, James W Scurrah), and a committee of four duly qualified members of the union, all of whom are to be elected annually A member must have carried on the business of a *bonâ fide* medical herbalist for three years prior to the date of his election. Registered office, 1022 Leeds Road, Bradford.

New Zealand Drug Company—The sixteenth annual meeting of Kempthorne, Prosser & Co's. New Zealand Drug Company (Limited) was held at Dunedin, on March 19. It appeared that a net profit of 7,179*l.* 12*s.* had been made in the year, and a dividend of 7½ per cent. was declared. This Company has paid over 100,000*l.* in dividends since its formation.

The Quinine-Bitters Manufacturing Company (Limited).—The seventh annual report of this company (of Llanelly, South Wales) shows a profit made during the year ending March 31 amounts to 1,012*l.* 13*s.* 6*d* An interim dividend at the rate of 5 per cent. per annum was declared in October, 1894, and the directors recommend a further dividend at the same rate.

Collins' Digestive Food Company (Limited).—A petition for the winding-up of this company by the High Court of Justice was presented on April 20, by Curwen Sisterson, of 131 Fenchurch Street, London, E.C., and the hearing has been fixed for May 1. The concern was registered on January 15, 1894, with a capital of 6 000*l*, in 1*l* shares, to carry on the business of manufacturers, vendors, purveyors, importers and exporters of, and dealers in food stuffs of every kind. At the time of the last return (March 23, 1894), 1,950 shares were taken up, and 10*s*. per share called, resulting in the receipt of 523*l*. and leaving 452*l*. in arrears. Registered office, 32 King Street Cheapside, London, E C.

The Homocea Company (Limited) in inviting subscriptions for 19,500*l*. 5 per cent. debenture stock at par submit an auditor's report which certifies the monthly sales since August 1, 1894, to February 28, 1895, to be as follows:—Month ending August 31, 1894, 1,555*l*. 5*s* 9*d*., September 30, 1894, 1,608*l*. 11*s*. 3*d*., October 31, 1894, 2,240*l*. 4*s*. 10*d*., November 30, 1894, 2.210*l*. 10*s*., December 31, 1894, 5,111*l*. 12*s*. 9*d*., Jannary 31, 1895, 2,435*l* 6*s*. 8*d*, February 28, 1895, 5,269*l*. 2*s*. 9*d* The total for seven months is this, 20*l*,436*l*. 14*s*. The sudden rise in the sales during December was occasioned by a notice given to the trade of an advance in price, at the beginning of the year and this is said to account also for the drop in January. The company now wish to extend their operations to other countries than the United Kingdom, whereby, it is conjectured, the sales will be much increased.

Wandsworth Chemical Works (Limited).—Reconstruction being resolved upon, the older company of this name held a meeting on February 27, when it was agreed that the company should be voluntarily wound up, in order to transfer the business to another concern. The resolution was confirmed on March 14. The liquidator gave his permission for the registration of a company with a similar title, and particulars of this concern have appeared in The Chemist and Druggist. The original company was registered on January 17, 1893, with a capital of 50,000*l*. in 5*l*. shares, to acquire and carry on the business of an agricultural and chemical manufacturer carried on by Frank W. Grierson under the style or firm of "Hamilton & Co.," at The Causeway, Wandsworth, S.W. Only the seven signatories' shares in addition to the 1,200 fully paid shares which the vendor recieved as his purchase consideration have been taken up.

The Medical Electrical Institute (Limited).—The statutory meeting of the creditors and shareholders of this company was held on Tuesday, at Carey Street, W.C, before Mr. C. J. Stewart, Official Receiver. The company was registered on October 16, 1894, and was formed for the purpose of carrying on the business previously carried on by the Medical Battery Company (Limited) for the sale of medical and electrical appliances. The capital of the company was fixed at 75,000*l*, of which 50,000*l* ordinary shares were to be issued as fully paid to the shareholders of the old company, and 25,000*l*. preference shares were to be issued to the creditors of that company, if the admitted claims amounted to that sum Various directors were appointed, and Mr. Harness was appointed manager at a salary of 600*l* a year. The only shares which had been allotted were those of the seven signatories to the memorandum and articles of association. First debentures to the amount of 2,790*l*. had been issued, and under the terms of the reconstruction scheme other debentures were to be issued, forming a charge of 6,650*l* upon all the assets of the company, subject only to the first debentures There was a large number of creditors who had lodged proofs against the old company, and in dealing with these it became apparent that the new company was not in a position to carry out the terms of the scheme of reconstruction; and in January last a receiver was appointed, who took possession of the assets on behalf of the debenture-holders. The advertisements did not apparently produce sufficient business to pay expenses. To that fact, and to want of funds to carry on the advertising for such a length of time as might possibly have rehabilitated the business, the failure of the company was attributed. The accounts which had been filed showed unsecured debts, 1,363*l*. other liabilities, 648*l*.; loans on debenture bonds, 9,440*l*. and preferential claims, 186*l*. The assets disclosed were stock-in-trade, machinery, &c., 5,000*l*.; and goodwill of lease, 1,000*l*.—the whole being covered by the debenture bonds. The deficiency was 5,630*l*., and it was clear that there would be no dividend available for the unsecured creditors. No resolution was passed with regard to the appointment of a liquidator and committee of inspection, and the Chairman intimated that the matter would remain in his hands to be wound up in the usual manner. In reply to a creditor it was stated that no fees had been paid to the directors, and that a sum of 250*l*. was due in respect thereof.

Personalities.

Mr. A. M. Todd, of Kalamazoo, is a Democratic candidate for the U.S. Congress.

Mr. T. Matthews, chemist, Man of Ross House, Ross, has been unanimously elected Parish Churchwarden.

Mr. C. S. N. Hallberg, the Chicago professor of pharmacy, aspires to a seat in the Illinois Legislature.

Mr. C. H. Bradshaw, chemist and druggist, has been elected a sidesman for the Parish Church of Tickhill, Yorks.

Mr. John W. Lloyd, chemist, Oxford Street, Swansea, has been appointed a churchwarden of St. Mary's parish there.

Mr A. R. Walden, chemist, of Gorey, Jersey, has been a second time unanimously elected churchwarden for that parish.

Mr. W. Watson Will, Principal of the Metropolitan College of Pharmacy, has been elected a Fellow of the Linnean Society.

Mr. C. W. Arrowsmith, chemist and druggist, Whitstable, has resigned his seat on the local School Board on account of pressure of business.

Mr. J. T. Smith, chemist, Wellingborough, has been elected Parish Warden of the Parish Church of Wellingborough for the third year in succession.

Mr. W. J. Bowen, A.P.S., Medical Hall, Criccieth, has been elected Chairman of the Criccieth School Board for the coming three years of the new Board.

Mr. W. Kingston Tomkins, chemist and druggist, of Buckley, Chester, has been appointed Vicar's Warden for the parish of St. Matthew's, Buckley, for the ensuing year.

Mr. Charles J. Milne, Quetta, Baluchistan, has been appointed chemist and aërated-water manufacturer to Lord Elgin, the Viceroy, and to Sir George White, the Commander-in-Chief.

Mr. John Morgan Richards and Mr. Henry S. Wellcome were amongst the principal guests at last Friday's dinner in the Café Royal inaugurating the American Society in London. The American Ambassador presided.

Professor Kobert, of Dorpat, has written to a friend in Detroit, stating that he has not left Russia, owing to the change of Czars. He now occupies his position, with all his honours, and has the right to teach in German.

Mr. F. Tunbridge, chemist, Castle Street, Reading, has been complimented by the local Ratepayers' Association for the successful stand he made in the recent Guardians election. Mr. Tunbridge has also been elected sidesman at St. Mary's Church, Reading.

We have had a call from Mr. Francis H. Sloan, a partner in the well-known wholesale drug-house of Dodge & Olcott, New York, who is on his way to the South of France. Mr. Sloan considers the general condition of trade in the United States to have undergone a decided improvement lately, and to be still mending. Messrs. Dodge & Olcott have been for some years engaged in introducing their essential oils upon the British market, but Mr. Sloan complains of the extreme conservatism of the average British buyer, and the long time it takes him to accustom himself to a new—especially a foreign—article.

Trade Notes.

The proprietors of Dr. Lynn's Fig Remedy (Messrs. J. H. Lynn & Co., 28A Farringdon Street) announce that they are now selling a 1*s.* 1½*d.* size of the preparation.

One of the prettiest examples of American chromographic printing comes to us from Kalamazoo, Mich., in the form of a calendar issued by Mr. Albert N. Todd, the essential-oil distiller there.

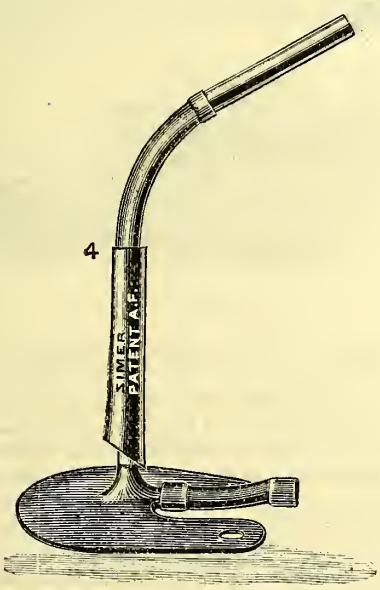
Messrs. Reece & Co., chemists, 168 Piccadilly, hold a complete stock of the preparations and appliances of Messrs. Oppenheimer, Son & Co. (Limited), and chemists in the neighbourhood can get supplies there.

A useful illustrated catalogue of galvanic batteries, accumulators, and electric apparatus generally, including such as are required for surgical purposes, has been issued by Messrs. A. Hurst & Co. of 66 Fenchurch Street, E.C.

Messrs. Watson & Wates, the homœopathic chemists, of 93 Leadenhall Street, E.C., have published this week an illustrated price-list in original form. It is a good list, well-arranged and well produced, and it is prefaced by a lemon sheet, which intimates that the price of 1*s.* pilules and tinctures is reduced to 3*s.* a dozen. Portraits of the principals of the firm conclude the list.

Messrs. Armbrecht, Nelson & Co. ask us to state that the applications for cigar-cases and penholders consequent on our last week's note have been so numerous that they are unable to despatch them as quickly as they would have desired. They are sending them off in rotation. Some of their correspondents seem to have expected that the cigar-cases as well as the penholders were made of aluminium. This was an error. Messrs. Armbrecht, Nelson & Co. ask us to state that their stock of World Almanacks has been exhausted, but that a new supply is being got ready.

Messrs. Barclay & Sons (Limited) have got the makers of the "Zimer" gas-lamp to produce a jet for sealing-wax, made on the same principle. The form is shown in the accompanying engraving. The attachment



shown at 4 has an opening at the base, which provides air for a Bunsen flame, and so enables the jet to be used with bottling-wax without blackening. The arrangement, with 6 yards of tubing, is only half a crown.

Fallowfield's "Photographic Annual."—The annual for 1895–96, published by Mr. Jonathan Fallowfield, of 146 Charing Cross Road, W.C., is the thirty-ninth issue, and we have apprehensions that if the firm continue to increase the bulk of the book at the present rate before the jubilee it will become as large as a half-plate camera. There are almost 800 pages in the present issue, and it is one of the most comprehensive catalogues of photographic materials published in this country. The firm's own specialities, of course, receive particular attention; but there are illustrations, descriptions, and prices of the most notable and popular apparatus and materials used in photography, while there are included notes bearing upon the chemistry and development of the various makes of dry-plates and printing-papers. A useful section of hints is appended to the catalogue, and a comprehensive index of the whole book follows that section.

Marriages.

Adams—Elliott.—On April 14, by banns, at Smethwick Old Church, William Wright Adams, chemist, 102 Cape Hill, Smethwick, to Florence Elliott, of Cullompton, Devon.

Cargill—Smallman.—At the Wesleyan Chapel, Wellington, Salop, on April 22, D. A. Cargill, pharmaceutical chemist, Lower Broughton, Manchester, to Annie, eldest daughter of Richard Smallman, Esq.

Roberts—Davies.—On April 4, at the Welsh Chapel, Gloddaeth Street, Llandudno, by the Rev. H. Barrow Williams, Williams Arthur Roberts, chemist, to Maria Ellinor, second daughter of John Davies, 10 Mostyn Crescent, Llandudno.

Stringer—Davison.—On April 10, at the Bowdon Downs Congregational Church, by the Rev. Dr. Mackennal, John Oswald Stringer, chemist and druggist, Kingston-on-Thames (son of the late John Stringer, of Manchester), to Hannah Elizabeth (Annie), younger daughter of the late Thomas Davison, of Altrincham, Cheshire.

Deaths.

Cheetham.—Mr. John Cheetham, aged 82, for many years in business at Hope as a chemist and druggist, was last week found dead at his house.

Clarke.—On April 8, James T. Clarke, pharmaceutical chemist, Manchester. Aged 45.

Jackson.—On Good Friday, April 12, at Bawtry, Yorkshire, Mr. F. J. Jackson, chemist and druggist, Aged 71. The deceased gentleman had carried on his business in the town for about fifty years. He was for many years Churchwarden, and a member of the first Bawtry School Board.

Lofthouse.—On April 17, Agnes, widow of the late James Lofthouse, the original proprietor of the business of Lofthouse & Saltmer, wholesale druggists, Hull, and mother of the present partner in that firm.

Business Changes.

Mr. R J. Price has removed from 114 Stroud Green Road to 103 Tollington Park, N. (corner of Stroud Green Road).

Two druggists' shops have recently been opened in Albany Road, Cardiff—one by Mr. Leo Joseph and the other by Mr. Jabez A. Jones.

A new branch will shortly be opened at Old Town, Hastings, by the Sussex Drug Company (Limited), of Brighton, who have also a branch in Robertson Street, Hastings.

Mr. F. W. Parkinson, Atherstone, Warwickshire, lately bought the premises occupied by the Coffee and Refreshment Tavern Company in that town. These are being adapted for his business, and he will shortly remove to the new shop.

Messrs. Geo. Gregory and W. V. Atherton have commenced business as chemical and general-produce brokers at 10 and 11 Mincing Lane, under the style of "Gregory & Co." Mr. Gregory was formerly connected with the firm of J. Puddy & Co., 9 Mincing Lane, E.C.

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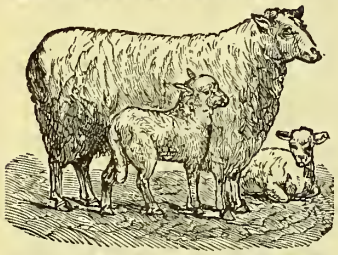
LAMBING SEASON



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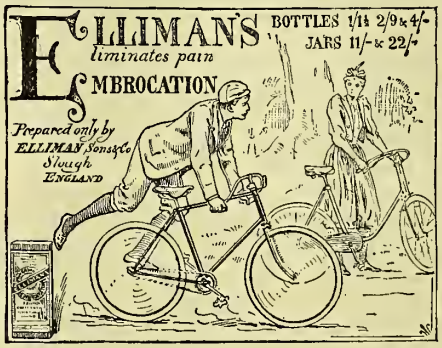

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Editorial Comments

OPIUM AND HEMP DRUGS.

The Royal Commission appointed nearly two years ago to investigate the extent and the results of the practices of opium-eating and opium-smoking in British India has at length issued its report. In the course of their labours the nine Commissioners examined about 700 witnesses, including many medical missionaries and general practitioners, from various parts of India and other countries. The testimony of these witnesses has been preserved in the shape of several bulky Blue Books, and the report in which the Commissioners sum up the results of their investigations is likewise, we are informed, an exceedingly lengthy document. Although the report, or rather reports (for one dissentient member of the Commission, Mr. J. H. Wilson, M.P., has drawn up a minority report, in which he dissents from nearly all the conclusions of his colleagues) are not yet published officially

their contents have nevertheless been made common property by an indiscretion, one of the cherubs that sit up aloft to watch over newspapers having dropped copies into the *Times* office.

Judging from the summary of the reports given in that Journal, the all but unanimous conclusion of the Commissioners is that opium is not used to excess in British India, that its effects are generally beneficial rather than injurious to the moderate consumer, that the number of people who take it to excess is infinitesimal compared with the number in this country who suffer from alcoholism, and that official interference with the cultivation of the poppy or the use of opium, besides being financially disastrous to India, would probably result in the much greater evil of replacing the opium by the alcohol habit. The most important point to be decided by the Commissioners was the question what was the moral and physical effect of the drug upon the consumers.

In order to get at the truth in this matter, the Commissioners took the evidence of many medical practitioners, both those under Government and those practising privately. The vast majority of the witnesses tendered evidence which convinced the Commissioners that the use of the drug in moderation is not by any means harmful. But, on the other hand, it is admitted all through the report that excessive resort to the drug has decidedly evil effects. "No part of the evidence," so runs the report, "deserves more attention than that of the medical witnesses." But the uses of opium as a stimulant, and as a general medicine, taken, not only by adults, but also by young children, were found by the Commissioners to be approved of by many others besides the medical experts. "In every part of India with which we had to deal we found witness after witness testifying to the belief in opium as the common domestic medicine of the people. It is taken in cases of specific disorders, such as rheumatism, diabetes, chill and diarrhœa. It is regularly administered to unweaned children. In malarial and damp tracts there is general faith in its virtue either in warding off or in curing fever. . . . Most of the witnesses with experience of the rural tracts spoke to the popular belief in the efficacy of the drug in cases of fever or as a preventitive against malarial influences. . . . Quite apart from the merits of this belief, its existence, which is the only question now before us, has been, we consider, conclusively established by the mass of evidence and observation to represent public opinion on the subject"; and finally, "looking to the whole evidence, we find a marked preponderance on the side of the view that the common use of opium in India is a moderate use, leading to no ill effects." The Commissioners, indeed, draw a distinction between opium taken in the ordinary way in India—namely, in the form of pills and infusions, and the "comparatively rare and novel habit of smoking preparations of opium known as *chandu* or *madak*." In British India it is considered disreputable to put opium to this use, and public opinion might not view with disfavour legislation against the smoking saloons or so-called clubs where the practice is carried on. Even here the Commissioners do not go the length of recommending measures of restrictive legislation; they would only make it difficult for smokers of *chandu* and *madak* to indulge in the habit. The conditions in regard to the consumption of opium in Burma are different in respect to those existing in other parts of India. A considerable Chinese population is there, and opium smoking is much resorted to in certain parts of the country. But the Commissioners do not see their way to recommend any further development of the new regulations recently introduced in Burma. The sweeping statements of the Commissioners that opium is the "universal household remedy" in India and the common domestic medicine of the people will probably cause some surprise, even among those who knew that the drug is the popular cure for the malarial fevers which are unfortunately so prevalent in India. It is, the Commissioners find, the arcanum for dysentery, endemic diarrhœa, and cholera, the group of diseases which rank next in deadliness to malarial fevers. "It is given in minute doses by mothers in all ranks of life to their infants, and the practice does not appear to any appreciable extent injurious"—a pronouncement which must appear rather peculiar to those British coroners who are never tired of crying out against the use of opium-preparations as a domestic remedy for children in this country. Opium, in short, according to the Commissioners, is the Indian rural medicine both for man and for cattle. Sir William Roberts, who is the principal opium glorifier quoted by the Commissioners, even goes so far as to say, according to the *Times*, that "anarcotine (*sic!*), the most abundant active principle of the Indian opiums, is scarcely inferior—and in some classes of cases is superior—to quinine as an antiperiodic."

It is only right to say that, in opposition to the views of his colleagues, Mr. J. H. Wilson, M.P., declares his unshaken belief in the baneful ness of the opium-habit, both morally and physically. Mr. Wilson impugns the selection of "pro-opiumist" witnesses, who, he declares, "represented the great majority of the official classes, both European and native, including military medical officers, together with many titled personages, landowners, and persons who considered that their financial interests were at stake."

Immediately preceding the issue of the Opium Commission's report, a report was issued by another Commission, appointed by the Indian Government, to inquire into the consumption of hemp-stimulants, especially of ganja for smoking, and of bhang for drinking purposes. The report appears to be as thorough a vindication of the use of hemp-drugs as that of the majority of the other Commissioners is for opium. In the province of Bengal, for instance, covering a third part of India, and embracing the chief ganja-making area, it is found that only one in 200 of the inhabitants consumes ganja at all, and not more than one in 4,000 inhabitants consumes it beyond the bounds of moderation. The evidence proves that the moderate consumption of ganja, or of the "refreshing drink in the hot weather" made from bhang, is innoxious. After these striking expressions of opinion it is not likely that any legislative measures will be adopted for restricting the use either of opium or of hemp-drugs.

SALE OF POISONS BY UNQUALIFIED ASSISTANTS.

We learn from Newcastle that a very strongly-worded leading article is expected from us by the chemists of that city, or at least by some of them, in reference to the case of the Pharmaceutical Society *v.* Fleming. We are asked "What is the Society for? Is it for our protection or for our annoyance?" Young Fleming is the unqualified assistant to a qualified chemist, and at the suit of the Pharmaceutical Society of Great Britain he has been ordered to pay 5*l.* for selling a bottle of chlorodyne. Of course we are sorry for young Fleming. The punishment is no doubt severe in comparison with the offence. It may not be much satisfaction to Mr. Fleming to know it, but the truth is that he is punished vicariously. Hundreds of unqualified men sell poisons every day, and one here and there must be spotted "to encourage the others." It is rather hard for the one on

whom the lot falls, but even he has no just cause for complaint. The law has been declared prominently enough, and if any chemist or chemist's assistant does not know about it he had better pack up and go to live in a land where laws are not. A sale of poisons law is considered desirable for the nation. Most of us believe it is, on the whole, a good thing for pharmacists. Is it to be enforced? And if so, is it to be enforced on grocers' assistants only, or should it be applied fairly all round?

CHEMISTS AND THE EARLY-CLOSING BILL.

We have been rather startled at the result of our vote on the Early-closing Bill from Liverpool, Birmingham, and Brighton, which, it will be remembered, were the towns selected for experiment. Liverpool was chosen by ourselves as a specimen large city which is credited with being fairly free from enthusiasms or fads. Birmingham was suggested by Sir John Lubbock, probably with the recollection of a cordial reception which his previous Bill had met with in the Midland metropolis. We thought it fair to balance this choice by adding Brighton, as a typical town of fashion, for in our previous vote the watering places generally showed a majority against the principle of the Bill.

We sent 206 voting-cards to Liverpool, 205 to Birmingham, and 71 to Brighton. *Nearly half of these cards have not yet come back to us*—a lack of courtesy which we hope will be remedied before our next issue. The voting, so far, results as follows:—

Liverpool	88 for,	10 against	the Bill;	2 neutral.
Birmingham	92 „	11 „	„	2 „
Brighton	31 „	6 „	„	3 „

The voting from the whole country in 1886 was 1,330 for, 734 against, and 163 neutral.

Besides the above we have received thirty-six letters or cards from other parts of the country in reference to the Bill. Thirty-three of these correspondents express themselves in favour of the principle of the Bill, and three against it.

THE NEW CHEMIST.

New things are the order of the day at this end of the century. We live in an age of renovation, and witness the apotheosis of Petticoat Lane. On every side the Old is being rediscovered, almost invented. Ancient methods in art and literature are proclaimed ecstatically, and musty manners of life and modes of thought gain a new vogue. Verily the New, in the shape of a multitude of youthful decrepits, is upon us. The claims of a New Art, a New Culture, a New Woman, and a New Humour are sung in our papers and magazines, and Pharmacy, with its usual antipathy to self-assertion, stands almost alone in abstaining from the bestowal of the title "New" upon its progressive wing.

It is time that the trumpet of the New Chemist be blown. Not that the New Chemist is bashful and coy, and requires corporate or journalistic tuition in the matter of blowing his own trumpet. He has a very intimate knowledge of all the intricacies of that very fine art, and may be trusted to take care of himself. In fact, it may be made to appear that the boot is on the other foot. When one reads of the marvellous effects of a trial box of the New Chemist's proprietary pills, one is tempted to pity the mere journalist who has to accomplish the daily task of attracting attention away from the thrilling tales of the advertising columns to the milder wonders of international wars or the airy friskings of harmless necessary sea-serpents and autumnal wooden-legged cows. What chance of astounding a satiated world have these pedestrian antiquities in the keenly-competitive age of the patent pill?

The New Chemist has as little title to his adjective as have the other generalisations upon which it has been so profusely conferred. He is merely the Old Tradesman, the underselling competitor of all time. He differs from his kind in that his attack was directed at an incipient profession. His success is probably accounted for by the fact that the pharmaceutical body, then, as now, in a state of transition, was at the most vulnerable period of its existence. The older professions, on the securer foundations of accumulated traditions and older and ampler charters, have successfully repelled innovators—up to the present. The birth of the New Chemist is within the memory of most of us, and his growth has been rapid and phenomenal. He has long ceased to be the sort of man whom it is policy to ignore.

It is surprising to reflect on the very small number of men who can seriously lay claim to the title New Chemist. Probably there are not more than a hundred in the United Kingdom. Of course they have a host of followers, servants, imitators, and the like, but these are not included in the category of astute, up-to-date business men who have had the brains, the energy, and the courage to initiate a great movement. The latter are the men who, principally at the expense of the large co-operative societies of drug-selling grocers and oilmen, but also at that of established chemists, have forged ahead and made money. Men of this calibre, with capital to back them, will make drug-stores pay in the future, as they have done in the past, for the same reason that they would make any project successful; but it would seem that now, when the rank-and-file of pharmacy is awaking to the pressing needs of the hour, the mere imitator will have a bad time. Now that nearly every chemist cuts his patents and adopts opportunist tactics in regard to his other sales, the edge of the store system of trading is getting dulled, and there are signs that trade is returning to its old channels—now that the channels have been re-modelled. In short, the game of calling a small retail shop a drug-store, and thinking thereby to persuade a perspicacious public that goods are sold there at a nominal profit, is played out. The great public nowadays lacks neither exhaustive price-lists nor, stranger still, intelligence. It knows perfectly well that a man in a small shop who has to make a living for himself and his family cannot afford to sell at the same prices as a large capitalised concern contenting its shareholders with a nominal profit.

We all know the type of chemist who thus insults the intelligence of his neighbourhood. On the strength of a recent marriage and 500*l.* capital he rents a gimcrack shop in a new terrace in the outer suburbs, and sets loyally to work to dry the plaster and carry out the repairing clause in his lease. In the intervals of such healthy employment he reflects that poor people cannot afford to buy cheap things—they want their money's worth—whereas rich people insist upon having cheap things. Therefore, as he lives in a half-caste but pretentious neighbourhood, he feels compelled to give the impression that he sells cheaply by calling his pharmacy a drug-store. He may deceive himself, but he does not deceive the neighbourhood—for long. After a few slack months he loses his initial assumption of energy, and may be observed standing behind his closed door, with hands plunged deep in pockets, and lack-lustre eye gazing vacantly at the muddy wilderness of a half-made road. Maybe he dreams tenderly of the student days that were, ruminates the honeyed sweets of the assured and regular salary of his assistantship, or yearns with

chastened sadness for the time when he will serve customers with both hands.

In time the growth of his neighbourhood will assure him a comfortable income if he can but hold out through the tardy interval, but at present he is only at the beginning of his troubles in a world where little seems certain but rent-day. For a while he must content himself with pacing up and down behind a dispensing-counter guiltless of prescriptions, and with listening to the errand-boy pounding a handful of linseed-meal in a bell-metal mortar to impress the casual passer-by with the bulk of business afoot. A customer turns up now and then of course: a policeman with the description of a battered burglar, a fireman with a subscription-list for an orphan school, or a local cheesemonger ostensibly to abuse the Government, but really to observe covertly the price at which patents are being sold.

It is a sickly drooping period the new man passes through before taking root, but the grateful rains of custom will come. When the neighbourhood has grown to profitable proportions it will then be worthy of the attention of one of the larger drug-companies, which will forthwith take a shop a few doors down the street—and help him.

BROOKS'S SOAP.

We understand that the soap which won't wash clothes is to follow those which do, or which have made complexions beautiful, by conversion into a limited liability company. His Highness the Monkey will continue to smile as benignantly as hitherto, we hope.

A NEW DEPARTURE.

The importance of bacteriological methods in the practice of medicine is excellently shown by the establishment of a Bacteriological Institute at Leicester, with Dr. C. H. Marriott as chairman; and Dr. J. Andrew Turner, D.P.H., is director and secretary of the laboratory, which has been provided and fitted up by Messrs. John Richardson & Co., Leicester (Limited), and placed under the control of a council appointed by the Leicester Medical Society. The objects of the Institute are briefly to assist in the diagnosis of disease. We are pleased to note that a pharmaceutical firm are associated with such an important new departure, and we observe that Mr. H. N. B. Richardson, B.A., is the hon. treasurer.

BRITISH PHARMACEUTICAL CONFERENCE.

As the British Association is to meet in Liverpool next year, the local chemists propose to extend an invitation to the British Pharmaceutical Conference to meet in the city at or about the same time. The Conference met there in 1870, under the presidency of Mr. W. W. Stoddart. The residents of Ontario, Canada, are desirous of having a meeting of the British Association in Toronto in 1897, and the legislative assembly of the province has made a grant of $7,500 to defray expenses. The acceptance of the invitation is doubtful; but should the British Association go out to Canada again, it would be a graceful compliment to Canadian pharmacy for the British Pharmaceutical Conference to go with it. Although Canadian pharmacy has a United States flavour about it, it is essentially British, and would be more so if British pharmacists were brought into close touch with Canadian for once.

WHAT IS LANOLINE?

Perhaps the greatest advantage of a Customs tariff is that it is in an exhaustible source of amusement and interest to onlookers who can regard disputes as to the proper valuation of doubtful articles with equanimity. Lanoline is one of the last things to vex New York importers. The collector there, three or four years ago, classified it as "rendered" oil, whereby it had to pay a duty of 25 per cent. *ad val.*, but against this the importers protested, saying that it is "wool grease," and should accordingly pay a duty of $1\frac{1}{5}$c. per lb The matter has now been decided against the importer. "Lanoline," says the Judge, is made from wool grease just as vaseline is made from petroleum, or cheese is made from milk; but it is never known as wool grease in commerce, and no business man would think of sending lanoline to fill an order for wool grease, which is a crude, raw material. The idea that lanoline is "wool grease" has been effectually exploded in the English courts; but upon what ground, we wonder, can it be classified as "rendered oil"?

HELIUM.

Professor Cleve, of Upsala, in a letter to Dr. T. E. Thorpe, states that his pupil (Langlett) isolated helium from cleveite, and Thalen examined the spectrum and found an exact coincidence of the line of the gas with helium, and some others. "An experiment to determine the specific gravity did not give trustworthy results, but seems to indicate that it is a very light gas, still more heavy than hydrogen. Will this gas," he asks, "fill the gap between hydrogen and lithium? It will become very interesting to see. What makes me much curious is that our helium gas was free from argon, and that Mr. Ramsay's did contain that curious stuff. Is there any relation between argon and helium, and are we facing a new epoch in chemistry?" Professor Norman Lockyer also states in *Nature* that he obtained the gas from cleveite by heating *in vacuo*. The gas comes off associated with hydrogen. Professor Lockyer has found no argon in the gas when examined spectroscopically, and he does not commit himself regarding the helium; but his present opinion is tolerably well shown by the headings which appear in *Nature*—viz., "Terrestrial Helium?"

THE INTERNATIONAL PHARMACOLOGICAL EXHIBITION AT THE HAGUE.

Dr. M. Greshoff, the technical Director of the Exhibition of Medicinal and Economic Plants, which is to be held at the Hague from July 8 to 16 next, has sent us programmes of the Exhibition in Dutch and in French. He writes that he will be glad to forward copies free of charge to anyone interested. The Exhibition, to which foreign goods are to be admitted as well as Dutch and Dutch-colonial products, promises to be very successful, and is very influentially supported. It is to be held in the new concert-hall of the city, which is surrounded by beautiful gardens. Many exhibits have been promised, including living plants from the Botanic Gardens of the three Dutch Universities. The famous Colonial Museum at Haarlem and the International Medicinal Museum in Amsterdam are likewise to be represented, and a large collection of medicinal plants is being shipped from Batavia. Specimens of economic and medicinal plants, natives of Holland, are being specially cultivated for the Exhibition by the Dutch Government Agricultural Institute. Mr. Greshoff also calls our attention to the fact that the Dutch Pharmaceutical Society will hold their annual congress at the Hague in the Exhibition week, and that the picturesque Residence of the Netherlands and the neighbouring watering-place of Scheveningen are seen at their best in the month of July. The first and second sections of the Exhibition will consist of living plants; the third of drugs, specimens of vegetable products of commerce, and herbaria of exotic plants; the fourth of chemical and pharmaceutical products, essential oils, &c.; and the fifth of books, pictures, &c. A reading-room of pharmaceutical and medical literature will be added to the Exhibition. Dr. Greshoff was formerly chief of the pharmacological laboratory of the Botanical Gardens at Buitengorg, Java. Persons interested in the Exhibition may address him at 97 Laan van Meerdervoort, the Hague.

Constructive Criticism of the British Pharmacopœia.

VII.—ESSENTIAL OILS.

By F. W. PASSMORE, Ph.D.

ONE of the most pressing questions involved in the revision of the British Pharmacopœia is how modern scientific knowledge respecting the nature and composition of essential oils may be best and most practically utilised. Up to the present the official definitions, characters, and tests have rendered little or no assistance in furnishing standards for comparison of quality, or even for identification, of the essential oils. Having regard to the legal as well as scientific importance attached to pharmacopœial statements in this country, compilers of previous editions doubtlessly felt handicapped and forced to preserve more than usual caution and reticence on a subject in which such confusion and misunderstanding prevailed.

But the time appears now to have arrived when science and practice alike demand the recognition of facts established by the concordant observations of independent investigators concerning the genuineness and quality of pharmacopœial essential oils. This has been brought about mainly by a better knowledge of the chemical constituents of essential oils, for it has been abundantly proved that no reliance can be placed upon any tests but those based on the recognition of chemical composition. Coincident with this development it may also be observed that the quality of commercial oils has improved, and adulteration of any particular oil has disappeared in proportion to the growth of chemical knowledge.

Generally the results of modern research have very much tended to favour the application of the principle of standardisation to essential oils. Yet there has been much opposition shown to the introduction of this principle, no doubt mainly because the conditions are so little understood. The reliance that was formerly placed upon taste and odour has been completely shaken, and how little value can be attached to botanical and geographical source is evident to every buyer. From a chemist's point of view the recognition, as standards, of certain physical and chemical data gained by observation on a large number of oils of undoubted quality, is the only means by which the adulteration and sophistication of these products can be guarded against.

In advocating the adoption of standards, I do not mean, however, to suggest that the Pharmacopœia should countenance the mere dilution or concentration of an oil to correspond to a certain percentage of one of its ingredients. To regard an essential oil as a mere solution of a specific chemical compound would, in our present state of knowledge, be a fallacy as absurd in conception as it would be mischievous in practice. Where it is considered that one of the constituents of an essential oil—such as menthol in peppermint oil or encalyptol in encalyptus oil—possesses sufficient therapeutical importance to be employed alone, by all means let it be isolated and used as a pure chemical preparation distinct from, or in place of, the essential oil; but the value of the oil must not be based solely upon the percentage of that constituent. The natural combination of volatile substances contained in the mother-drug, the preservation of which, by suitable methods of extraction, is the criterion of success in the preparation of an essential oil, is an all-important feature.

What should be understood by standards as applied to essential oils is—

(1) That specific limits in the physical constants (gravity, optical rotation, boiling-point, &c.) should be recognised.

(2) That one or more constituents should be present in certain proportions.

(3) That certain substances indicative of adulteration, deterioration, or inferiority should be absent.

These may be regarded as the minimum requirements. Every individual is, beyond these, at liberty to lay what stress he likes upon appearance, odour, and flavour, but the latter are characters that can only be described in general terms, and concerning which no very definite statements can be made, as they depend upon personal sensibility and preference. It must also be remembered that the Pharmacopœia is not intended to be a compendium of elegant pharmacy or of perfumery, but to contain a concise description by means of which the drug may be identified and proved to be of proper quality for employment in medicine. Where the drug is a definite chemical compound, its physical and chemical characters are given, and, logically, this plan should be extended to more or less definite mixtures of similar compounds, as the essential oils have been proved to be.

From this view of essential oil standards it will be seen how much the labours of the compilers of the Pharmacopœia have been facilitated and lightened by modern research, in showing how, with few exceptions, the requirements of a specific oil of good quality can be reduced to narrow limits, excluding the possibility of any serious adulteration, and—what is most important—in proving that the production of such oils is a commercial possibility. Where in a few instances, as in lavender and peppermint oils, the productions of different countries, even when distilled from the same or allied species, have been proved to possess such an extraordinary difference in composition, the case is by no means weakened, for it only corroborates what was previously suspected, and can only assist pharmacopœial authorities in defining the characteristics of a good medicinal oil.

But the great difficulty that is experienced in compiling pharmacopœial definitions for the characters and tests of essential oils is the delicate, not to say complicated, nature of some of the processes by which many of the determinations are made. Unfortunately, this consideration at present excludes, at least from the Pharmacopœia, some of the most subtle and reliable tests which require more than average knowledge and skill, and the adjuncts of special and intricate apparatus, to perform, and for this reason the quantitative determination of the proportions of the most important constituents in some essentials oils must be postponed until simpler and more rapid tests have been devised. But making full allowance for these disadvantages, there is still a goodly material that can be utilised to the advantage of pharmacy and medicine.

The determination of physical data is always an important factor, both in the identification and valuation of an essential oil, and, in fact, in view of the difficulties of the methods of chemical estimation, principal reliance must in some

cases be placed therein for pharmacopœial purposes. Were it to decide the mere identity of the oil, and to detect the grosser forms of adulteration, these indicators would, indeed, be generally found sufficient, though in the case of some oils, the art of sophistication has been cultivated to such a pitch, and the use of what may be called "refined" adulterants has been developed to such an extent, that it appears possible to adulterate an oil largely, and still keep within the specified limits of its physical constants. In such cases, of course, only chemical examination can reveal the truth; but it must be remembered that, under physical data, three or four or more independent factors have to be dealt with, and it is rare indeed if careful search by physical methods does not indicate the presence of foreign substances. Even when two or three conditions are complied with, the adulterated oil will frequently fail to comply with the fourth, and in order to meet these emergencies it is necessary to set up limits as narrow as compatible with justice, and which are generally much narrower than some would have us think.

It is, therefore, advisable that physical data should be given the first place in pharmacopœial requirements, both because they are, as a rule, easy to determine, and also because they are good indicators of anything wrong. In defining the characters of essential oils in the Pharmacopœia I should like to see stated uniformly—

The specific gravity,
The optical rotation,
The approximate boiling point or points,

and, in a few cases, also the melting-point and solubility.

The specific gravity of essential oils generally may be conveniently taken at 15° C., except where solidification is apt to set in before that temperature is reached, as with good anise oil. The degree of definiteness in the gravity factor depends to a large extent upon the nature of the oil. In essential oils which consist mainly of one constituent, or of similar constituents, a difference of a few figures in the third place of decimals, as in clove and lemon oils, marks the limits of genuine oil, whilst in others containing a mixture of several constituents in fairly equal proportions, a limit of two or three figures in the second place of decimals must be allowed. As a rule the terpenes or hydrocarbons are the lightest constituents, and those compounds containing oxygen the heavier—in some cases heavier than water—but within the above limits the differences in specific gravity in the same class of oil cannot be taken as reliable indications of the presence of a smaller or larger proportion of any specific constituent.

In respect to specific gravity, another item that must be taken into consideration is the effect of aging upon a few oils. This may produce entirely opposite effects, either increasing or decreasing in gravity, according to the oils. Thus, newly-pressed bergamot oil will generally be of higher specific gravity than the normal, owing to the stearoptene expressed with it, which quickly deposits on standing. On the other hand, lavender, juniper, and one or two other oils increase considerably in gravity with age, probably owing to polymerisation of some of their constituents.

The determination of the optical activity of essential oils, a most important feature in a number of instances, introduces the recognition of a new physical property into the Pharmacopœia. It is, however, novel rather in its practical application than in its theoretical significance, and although the adoption of this suggestion would necessitate the more intimate acquaintance of the pharmacist with a special instrument, the polarimeter, this adjunct can now be obtained so cheaply, and is so easy to operate, as to present no serious difficulty to its general use. It is only necessary to remark that an instrument reading to 1° and carrying a tube 100 or 200 mm. long is amply sufficient, the results being generally recorded in degrees per 100 mm.; and an indication of the kind of instrument required might be made in the prefatory remarks to the Pharmacopœia without leaving the book open to the charge of giving text-book information.

On the subject of boiling point determinations or, practically, fractional distillation of essential oils, a few prefatory remarks regarding the nature of the apparatus required and the conditions to be observed would also not be amiss or out of place, having for its object the uniformity of results. Although only in a few cases, like anise oil and clove oil, where there is one main constituent, anything approaching a constant boiling-point is observed, yet even with a small quantity of oil valuable indications are frequently afforded by noting the initial boiling-point, the boiling-point of the bulk, and the practical final point of distillation. In sandalwood oil, for instance, the determination of the initial boiling-point is vital in detecting cedar and other wood oils. What has been said as regards general instructions for taking the boiling-point may also be repeated respecting the melting or congealing point, although its utility is practically limited to the case of anise oil.

With regard to the most suitable chemical tests for introduction into the Pharmacopœia, no doubt differences of opinion will arise as to what reasonable degree of skill and expenditure of time may be expected from the average pharmacist; for there is no disguising the fact that many of the chemical tests, and especially methods of estimation, are both exacting and tedious.

In working upon the subject of pharmacopœial requirements in conjunction with Mr. Helbing, many chemical tests have been carefully considered, with the object of ensuring not only the freedom of essential oils from adulteration, but also their high concentration and uniformity. Many re-agents, such as phenylhydrazine, sulphuretted hydrogen, sodium and potassium hydroxides, benzoyl chloride, sodium bisulphite, phosphoric acid, ammonia, and others, have been found just as useful for essential oils as in the study of other chemical compounds. Such group reagents even afford an approximate idea of the proportion of the respective constituents present from the amount of precipitate formed, and methods of quantitative estimation are based upon them which—especially in the case of the estimation of eugenol in clove oil, in pimento oil, and in cinnamon oil, the estimation of cinnamic aldehyde in cassia and cinnamon oils, and the estimation of allyl isosulphocyanate in mustard oil—furnish very true results.

Besides these gravimetric quantitative estimations the volumetric determination of the saponification equivalent in such oils as contain esters also affords a ready and easy method of determining the amount of such esters by a simple calculation, the alcohols possessing the formula $C_{10}H_{18}O$, as linalool in bergamot and lavender oil and borneol in pine oils, or $C_{10}H_{20}O$, as menthol in peppermint oil, whilst the acid with which they are generally combined is acetic acid. By an extension of the same process and conversion of the uncombined alcohols into esters, as borneol in rosemary oil and menthol in peppermint oil, prior to determining the saponification equivalent, the volumetric estimation of the uncombined alcohols can also be carried out.

Not to be overlooked are also the reagents for the detection of impurities—ferric chloride for phenols, sodium bisulphite for aldehydes, sodium hydroxide for acids and phenols, and others which the appearance of any special adulterant might suggest advisable. Where such reagents are employed it is

also advisable that the impurity they are intended to discover should be appended in brackets.

Finally as regards possible deletions from or enlargement of the list of pharmacopœial oils. As in dill oil the proportion of carvol is lower than in caraway oil, and in every other respect the oils appear to be chemically identical, and answer to the same tests, there seems to be no valid reason why the British Pharmacopœia should be an exception in retaining dill oil. Cajuput oil also, owing to the wide variations in its physical characters and chemical composition, might be advantageously omitted in favour of eucalyptus oil if it is employed for any other purpose than imparting an odour as in lin. crotonis.

On the other hand, the oils of cassia, bergamot, and orange appear to enjoy a sufficient reputation in pharmacy to warrant their official recognition, and it is to be hoped that their admission to the Pharmacopœia will be counted amongst coming improvements.

The Testing of Eucalyptus Oil.

By H. Helbing and Dr. F. W. Passmore.

When, in 1892, we first advocated strongly the necessity of judging the quality of a eucalyptus oil by its freedom from irritating aldehydic substances, by the absence of phellandrene, and by the yield of crystallisable eucalyptol, we were convinced that in time such requirements would be everywhere adopted. For three years our method of fractionating the eucalyptus oil and separating the eucalyptol from these fractions by a freezing-mixture was widely adopted, and many buyers require eucalyptus oils to contain at least 40 per cent. crystallisable eucalyptol obtained according to our method.

At the end of last year a new test was devised for the determination of eucalyptol in eucalyptus oil by means of phosphoric acid. In February, 1895, we pointed out that we did not think that this apparently promising method would yield accurate results in the quantitative estimation of eucalyptol in all commercial samples of eucalyptus oil, although it certainly answers for manufacturing eucalyptol on a large scale from suitable eucalyptus oils. Since then we have continued to examine in detail the merits of this method, and as it is still put forward as a means of determining quantitatively the true value of eucalyptus oils of commerce, we think it important that a clear understanding should be come to as to how far the method is reliable.

Everyone is aware that the difficulty of obtaining crystallisable eucalyptol by the freezing-process consists in the tendency of the terpenes to retain the eucalyptol in solution. Results obtained by this method would therefore be, if anything, too low, and a buyer of eucalyptus oil giving 40 per cent. crystallisable eucalyptol by the freezing-process was sure to have an oil with at least this percentage, but often higher.

The phosphoric-acid test yields in some instances no precipitation whatever, particularly where the percentage of crystallisable eucalyptol is low. In cases of eucalyptus oils with a high percentage of eucalyptol the yield is, however, marked. We have found that in oils yielding by our freezing-process above 30 per cent. eucalyptol, in single instances even up to 15 to 20 per cent. more eucalyptol is obtained by the phosphoric-acid test.

In judging and buying eucalyptus oil the following points must, therefore, be taken into consideration:—

1. A proportion of 40 per cent. crystallisable eucalyptol is required by the freezing-process.

2. A proportion of 50 per cent. eucalyptol is required by the phosphoric-acid test.

3. A proportion of 40 per cent. crystallisable eucalyptol obtained by the freezing-process (our standard) is equivalent to between 50 and 60 per cent. crystallisable eucalyptol obtained by the phosphoric-acid test.

In carrying out the phosphoric-acid test the following points are specially important:—

1. Cooling and stirring the oil whilst adding a highly concentrated phosphoric acid, drop by drop, till a dark reddish coloration appears.

2. Pressing the eucalyptol phosphate between filter-paper till the crystals are quite white.

3. Decomposing the eucalyptol phosphate with warm water, separating the eucalyptol, and determining that it solidifies easily by -3° C.

4. Testing as usual for irritant aldehydic compounds and phellandrene.

We trust that this note may result in securing that uniformity of interpretation which is desirable.

Literary Notes.

It will be observed that Mr. Frederick J. Hanbury has published through George Bell & Sons a ninth edition of *The London Catalogue of British Plants*. For so cheap a book (it can be got at 6*d*. and 1*s*.) it is astonishing how much work has been expended upon it to bring it thoroughly into line with the present views of classification. We note, for example, that a small committee of the author's botanical friends—viz., Mr. B. D. Jackson, compiler of the *Index Kewensis*; Mr. James Britten, editor of the *Journal of Botany*; and Mr. Arthur Bennett—met at his house on many occasions to discuss points of the work, and Mr. Hanbury's correspondence with authorities generally must have been voluminous. The result is shown in the admirable classification now before us, in which 1,958 species and many hundred varieties are arranged. It is quite obvious that the collectors who invest a shilling in the *Catalogue* get not only a book which will be of immense value to them in arranging their specimens, but one which the price cannot represent the value of, since it is the fruit of a labour of love.

Brestowski's *Handwörterbuch der Pharmacie* (W. Braumüller, Vienna and Leipzig) has now been carried as far as "Stereochemie," and four parts only remain to complete the dictionary. The high character of the work is well maintained, and, as far as it has gone, we have found it to be most useful for reference.

New Books.

Armatage, G. *The Sheep Doctor*: a Guide to the British and Colonial Flockmaster in the Treatment and Prevention of Disease. With Recipes and Illustrations. 8vo. Pp. 918. 10*s*. 6*d*. (Warne.)

Behrens, Prof. H. *Anleitung zur mikrochemischen Analyse*. With an introduction by Prof. S. Hoogewerff. Illustrated. Large 8vo. Pp. xii and 224. 6m. (Leopold Voss, Hamburg.)

Dumas, A. *Memoirs of a Physician*. 2 vols. 8vo. 6*d*. each. (Caxton Novels.) (Routledge.)

Hanbury, Fredk. J. *The London Catalogue of British Plants*. Part I. Containing the British Phænogamia, Filices, Equisetaceæ, Lycopodiaceæ, Selaginellaceæ, Marsilcaceæ, and Characeæ. Ninth edition. Small 8vo. cloth. Pp. 50, interleaved with blank paper. 1*s*. (Ditto, paper covers, not interleaved, 6*d*.) (Geo. Bell & Sons.)

Marchlewski, Dr. L. *Die Chemie des Chlorophylls*. With 2 tables Large 8vo. Pp. iv. and 82. 2m. (Leopold Voss, Hamburg.)

Robson, A. W. M. *A Guide to the Instruments and Appliances required in Various Operations*. 16mo. Pp. 58. 1*s*. 6*d*. (Cassell.)

Stiefel, Dr. H. C. *Die Lichtempfindlichen Papiere der Photographie*: Ein Leitfaden fur Berufs- und Amateur-Photographen. Illustrated. Small 8vo, paper covers. Pp. viii. and 178. 3m. (A. Hartleben, Leipzig and Vienna.)

Photographic Notes.

By A PHARMACEUTICAL CAMERIST.

The Beginning of the Season.

PHOTOGRAPHY has but two periods—session and season. In the former all good camerists meet together round lantern-screen and nicotinian shrine to criticise each other's work from the past season, talk bad chemistry and, occasionally, worse physics, and prophesy in regard to the coming season. Well, the session is practically over now, and the 1895 season has commenced. To many others in the trade besides myself this means a fresh period of pleasure and pecuniary profit. It would never do for the pharmacist to speak of all his wares from personal experience; but it is essential that the pharmacist who deals in photographic goods should know how to take a photograph, and most of the tricks and touches which help to make the photograph better than Nature and the lens will allow. I maintain that amongst the best assistants to the amateur photographer (whose fancies the chemist particularly cultivates) is the retail chemist and druggist. My object is to help the latter, as far as I can, by noting things that are new in the way of apparatus and materials—notions that are new and of which no one person is the individual repository; therefore, I will be glad if any pharmaceutical camerist will communicate to me for publication in this column ideas which he has found to be useful in cultivating the photographic trade. Perhaps, it may be an improved formula for a developer, or what not; it may be a difficulty solved, or which requires solution—anything, in short, practical and useful in photographic trade.

The season has begun well so far as novelties are concerned. A description has already been given in The Chemist and Druggist of the new series of plate and roll carrying cameras which the Eastman Company have brought out under the name of "Kodet." I hear that they are to be the rage this summer, and I carry one or two as samples. The company have also introduced a very compact folding "Kodak," which goes into book-bulk when it is squeezed up. A good hand-camera has been introduced by Barclay & Son (Limited), Farringdon Street, E.C., but I have not yet had the opportunity to test its capabilities.

Every time I go to Canterbury I try to get good plates of those rare old stained-glass windows for which the Cathedral is noted, and I have never been proud of my success; there is so much blur in the plates from halation—that eternal bugbear which spoils many an otherwise perfect picture. It generally happens, too, that the pictures sacrificed to halation are those which one cannot coat with a composition, because they are carried in the hand-camera. Once I was in that fix at the top of Ben Nevis; hence I never show my picture of the interior of the observatory there. I, therefore, welcome the appearance of

Anti-halation Plates.

These are made by R. W. Thomas & Co. (Limited), Thornton Heath, according to Oakley's method, for which patent protection is asked. I tried these plates during the Easter holidays, and the results are excellent. My plan was to try the anti-halation and ordinary plates with the same light and same time, and where with the ordinary plate I got beautiful examples of halation, with the Oakley-Thomas plate I had precise pictures. My only objection to the new plate is that it prints somewhat slowly; but better that than no print at all. The plates are made medium and ultra rapid, and require no special manipulation, except that the alum-bath must not be omitted on any account, otherwise frilling takes place. I judge that the anti-halation medium in this case is a gelatine film dyed with a non-actonic crimson dye, and applied to the plate before the sensitive film so that the latter does not mix with the former. Perhaps a few notes on the

Methods of Preventing Halation

may be useful at the beginning of the season. The common way is to use any backing such as *Teapes' Backing Preparation*, which is much in request:—

Mucilage	℥j.
Caramel	℥j.
Burnt sienna (ground in water)	℥ij.
Well mix, and add spirit..	℥ij.

The method of using is to place a portion on the back of the plate and distribute evenly by means of a squeegee. The coating is then either allowed to dry or a piece of paper is placed over it before putting into the dark slides. The preparation should be put up in collapsible tubes holding about 4 oz., and retailed at 1*s*. Before developing the backing has to be washed off with a damp sponge. A much better preparation is "anti-halation fluid," the formula for which is—

Hard soap (in fine shavings)	℥ss.
Spirit	℥x.

Digest at a temperature not exceeding 70° F., agitating occasionally for seven days. Filter, and dissolve in the filtrate—

Erythrosin	gr. l.
Aurin	„ l.

Paint on the back of the plate with a large camels'-hair brush, and allow to dry.

The great advantage of this fluid is its quick-drying property and the fact that it does not require to be removed before developing, as its presence in the developer is rather beneficial than otherwise on account of its deep ruby colour. It should be put up in 2-oz. bottles, which sell at 1*s*.

Backing Papers consist of pieces of ruby or black paper cut a trifle smaller than the plate. They are intended to be stuck in optical contact with the back of the plate. Some are sold ready gummed, and only require wetting and squeegeeing to the glass. Papers are not so effectual generally as the methods described above. It is worth remembering that when halation has occurred the dense portions can be much reduced by rubbing with a piece of lint moistened with methylated spirit.

Elliott's Barnet Bromide-paper

is one of the newest printing-papers, and is so easily worked that it is sure to give satisfaction when recommended to customers—at least that is my experience. It has a pleasing matt surface, and, when finished, closely resembles a platinum print. It only requires an exposure of a few seconds to an ordinary gas-flame. The best developer to use is metol, which does away with the acid-baths necessary with ferrous oxalate. The formula is—

A.

Metol	gr. 50
Sodium sulphite	℥j.
Potassium bromide	gr. vj.
Water	℥x.

B.

Potassium carbonate	℥j.
Water	℥x.

For use, mix 3 parts of *A* with one of *B*. Well fix in "hypo," 4 oz. to the pint.

I notice that a correspondent of the *Amateur Photographer* strongly recommends amidol for bromide-paper generally. His directions are:—Dissolve 50 grammes of sodium sulphite in 1 litre of water, making a 5-per-cent. solution; take 100 grammes of this, and add ½ gramme amidol; 4 or 5 drops of 10-per-cent. solution of bromide potassium may be added. In portraits on Eastman's platino-bromide paper, the most splendid velvety-black is produced. The addition of water produces greyer tones.

Waxing-solution.

Before squeegeeing prints on to glass to obtain a brilliant surface it is usual to give the glass a rub with a solution of wax. A superior preparation is—

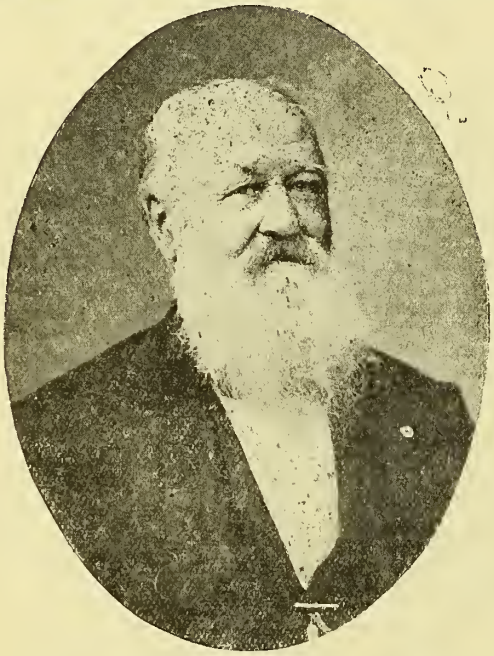
Spermaceti	ʒij.
Benzine	℥x.

Dissolve.

1-oz. bottles, with directions, sell at 6*d*. The addition of a drop or two of citronella oil is not a disadvantage.

A Patriarch of Pharmacy.

DR. JOHAN ELIZA DE VRY, of the Hague, the well-known Dutch quinologist, whose portrait we give below, was born on January 31, 1813, at Rotterdam, where his father, Justus de Vry, had a pharmacy. De Vry began to apply himself to the paternal profession at an early age, but soon appears to have shown a decided bent for the study of pure chemistry. When the subject of our sketch had reached the age of 19, Mr. Justus de Vry died, leaving a widow and ten children, of which Johan Eliza was the eldest. The youth then took charge of his father's pharmacy, taking his degree, by special Royal dispensation, in 1832, before he had attained the minimum age prescribed by law. Shortly afterwards De Vry translated into Dutch Heinrich Rose's "Handbook of Analytical Chemistry," one of the great text-books of the day. Through the author of



Dr. J. E. de Vry C.I.E.

this book De Vry was brought into personal relationship with Berzelius, Rudolf Brandes, J. B. Trommsdorff, Joseph Pelletier, J. B. Caventou, and other prominent chemists of the time. De Vry first met Pelletier and Caventou, the discoverers of quinine, at a scientific congress held in Bonn in 1835. Pelletier afterwards sent De Vry specimens of the new alkaloids discovered by him, and thus first drew the Dutch chemist's attention to the study of cinchona and its alkaloids. In 1838 De Vry took the degree of Phil.D. at Leyden University, and a few years afterwards he was appointed to the position of teacher of chemistry and pharmacy at the Medical-pharmaceutical College in Rotterdam. In 1850 he sold his pharmacy in order to devote himself entirely to scientific work, which, for the next seven years, he carried on at Rotterdam, making frequent journeyings to England, France, and Germany. The chemistry and preparation of nitro-glycerine, morphia, red phosphorus, cherry-laurel water, but, above all, quinological studies, occupied De Vry during this period.

In 1857 the scientist Junghuhn, who was then in Java on a mission from the Dutch Government, suggested that De Vry should be offered the post of inspector for chemical investigation in the Dutch colonies. This offer was accepted by De Vry, who left for Java in October of the same year. He remained in the island until the autumn of 1863, his principal work being connected with the extension of the cinchona-plantations. Since his return from Java Dr. de Vry has lived in the Hague. In 1880 he was made a C.I.E. by the Queen for his services in connection with the cinchona cultivation. He has also been honoured by similar distinctions on the part of the Dutch and French Governments. In spite of his eighty-two years Dr. de Vry is still hale and hearty, and takes a lively interest in pharmaceutical matters. Only a few days ago he presided at the annual meeting of shareholders in the Amsterdam Quinine-factory, of which concern he is a director.

Counter Practice.

RECIPES CONTRIBUTED BY SUBSCRIBERS IN COMPETITION, AND COMMENTED UPON BY A MEDICAL PRACTITIONER WITH TYPICAL PRESCRIPTIONS IN EACH GROUP.

DYSPEPSIA.

Bismuthic Mixtures.

Sodii bicarb...	ʒij.
Bismuthi trisnit.	ʒj.
Pulv. trag. co.	ʒj.
Sp. ammon. co.	ʒiij.
Sp. chloroformi	ʒiss.
Ess. menth. pip.	♏xx.
Aquæ ad	℥viij.

M. Fit. mist.

℥j. 4tis. horis. (118)

Bismuthi carb.	ʒij.
Sodæ bicarb...	ʒiss.
Pulv. tragacanth. co. ..	ʒiss.
Tinct. nucis vom.	ʒj.
Syr. zingib.	ʒij.
Aquæ ad	℥viij.

M.

Capiat ℥ss. ter horâ ex aqua. (4)

Sodii bicarb...	ʒij.
Bism. subcarb.	ʒj.
Mucil. tragac.	℥j.
Aq. chloroformi	℥iv.
Aq. ad	℥viij.

M.

⅛ ter die ante cibos.

In addition in some cases the following pills :—

Hyd. c. creta..	gr. iss.
Pil. rhei co.	gr. ij.
Ext. hyoscy...	gr. ½

Ft. pil. j.

j. alt. nocte. Mitte ij. (124)

Bismuthi carb.	ʒj. ℈j.
Sodii bicarb...	ʒj. ℈j.
Pulv. tragac. co.	ʒj. ℈j.
Spt. ammon. aromat. ..	ʒij.
Spt. chloroformi	ʒj. ℈j.
Acid. hydrocyanic. dil. ..	♏xvj.
Aquæ ad	℥viij.

M. Ft. mist.

Sig.: ℥j. ter die sum. p.c. (208)

Sodii bicarb.	ʒij.
Bismuth. subnit.	ʒj.
P. trag. co.	ʒj.
Spt. ammon. co.	ʒiij.
Spt. chlorof...	ʒiss.
Ess. menth. pip.	♏xx
Aquæ ad	℥viij.

M. Ft.mist.

℥j. ter die post cibos. (151)

Bismuth. carb.	ʒij.
Sodæ bicarb...	ʒij.
Pulv. trag. co.	gr. 30
Tr. nucis vom.	ʒj.
Tr. aurant.	ʒiij.
Aq. anethi ad	℥vj.

M. Ft. mist. $\frac{1}{12}$th part ½ hr. before meals three times daily. (188)

Bismuth. carb.	ʒiss.
Sodæ bicarb...	ʒiss.
Tr. nucis vom.	ʒj.
Pulv. pepsin...	ʒj.
Pulv. trag. co.	gr. 40
Sp. chlor.	ʒj.
Aq. ad	℥vj.

Misce: $\frac{1}{12}$ partis ter die ex aq. pauxillo hora ½ ante cibos. (190)

Sodii bicarb...	ʒj. gr. xx
Bism. carb.	ʒj. gr. xx.
Mucilage	℥ss.
Tr. nucis vom.	♏xl.
Inf. calumb. ad	℥viij.

Cap. ℥j. ter die ante cibos. (97)

A further instalment of bismuth-mixtures. Some suspending vehicle, such as pulv. acaciæ or pulv. trag. co., has evidently been omitted.

Bism. carb.	ʒiij.
Sod. carb.	ʒiij.
Ext. cascar.	ʒj.
Tinct. hyosc.	ʒij.
Sp. chlor.	ʒij.
Inf. quas. ad	℥vj.

Coch. mag. ter in die ante cib. (176)

Sodæ bicarb...	ʒij.
Bismuth. carb.	ʒj.
Sp. ammon. aromat. ..	ʒiij.
„ chloroformi	ʒiss.
Tinct. zingib. fort.	ʒiss.
Inf. gent. co. ad	℥viij.

M. Ft. mist.

Cap. ℥j. t.d.s. p.c. (162)

Sodæ bicarb...	ʒiss.
Bismuth. carb.	ʒiss.
Acid. hydrocyan. dil. ..	♏24
Tinct. zingiberis	ʒij.
Aquæ chlorof. ad	℥vj.

Fiat mist.

One tablespoonful in water shortly after meals. (117)

Preliminary Examination Results.

We have received from the Registrar of the Pharmaceutical Society of Great Britain the following list of candidates who were successful at the "First" Examination, held on April 9:—

Alexander, Robert, Arbroath
Anderson Campbell, Lewis G., Princes Risboro'
Axford, Frank Stanley, Manchester
Bailey, Daniel Jennings, Denton
Bailey, John Harling, Bournemouth
Barker, George Rodney, Mold
Barks, Arthur, Fence Houses
Barlow, Joseph Alexander, Burnley
Bayley, Arthur Wesley, Brighton
Bayley, Leonard, Lydd
Bell, Amys Jonathan, Joppa
Bellamy, Sydney Charles, Barnsley
Berry, Claudius Albert, Belfast
Birtwisle, Albert, Castle Northwich
Boon, Thomas R., Kirton-in-Lindsey
Bott, Stanley, Leicester
Brider, Percy G. F., Southampton
Browning, Lætitia F., Weymouth
Bull, William Robert W., Bath
Burden, Sidney, Croydon
Burkinshaw, Alfred, Belper
Cameron, John S., Burton-on-Trent
Campion, John Ambrose, Sheffield
Carmichael, Alex., Bridge of Allan
Carmichael, Graham, Liverpool
Chambers, Frank D., Eastwood
Cheetham, Percy, Louth
Chisholm, A. McIntosh, Inverness
Churchill, Arthur H., Birmingham
Clark, Charles Wm., Kensal Rise
Cleasby, William H., Morecambe
Cooke, Leslie Tucker, Gloucester
Coull, George, Buckie
Cox, John Wilfred, Rotherham
Crecraft, Richard P., Nottingham
Crossley, Edgar, Belper
Cullingford, H. V., West Cowes
Danson, Henry Horace, Leicester
Davies, David Augustus, Whitland
Desmond, Dennis W. A., London
Dewhurst, George Edward, York
Dixon, Ernest Rowlatt, Leeds
Draper, Lewis B., Blackheath
Duckworth, Herbert K., Ulverston
Dunlop, Hugh Morton, Carlisle
Dunn, George, Market Drayton
Durbin, Herbert Samuel, Putney
Dutch, Rose, Tottenham
Eason, Samuel B., Liverpool
Evans, Nathaniel John, Laugharne
Evans, Robert Harold, Southport
Evans, Rowland George, St. Asaph
Fairweather, Alfred E., Kingsbridge
Farmer, Samuel Reginald, Longton
Farr, Minnie, Redditch
Fear, Jared Livingstone, Bradford
Ferguson, Thomas Walter, Cumnock
Fletcher, Hartley, Bramley
Forrester, Thomas Harrow, Dysart
Foster, Thomas Lester, Belfast
French, William Harry, Shilton
Gammie, Alexander, Lochgelly
Gilleghan, Herbert, Barnsley
Gray, A. McKilligan, Portsoy
Grayshon, Harry, Leeds
Green, Edwin, Market Harborough
Griffiths, John, Whitland
Hall, Albert Tuton, Rochdale
Hall, Edward Percy, Skegness
Hands, Charles Bromley, Chester
Hannay, David, Glasgow
Harris, Annie May, Merthyr Tydvil
Harris, Solomon, Sheffield
Hawker, William H., Cambridge
Hawksworth, John G., Sheffield
Hemming, Ernest Evan, Bridgend
Herbert, Auberon, Reading
Herd, Robert Stark, Kirkcaldy
Higgins, Clement William, Wem
Hodges, Herbert Murray, Darwen
Holt, Henry, Manchester
Holton, Harry Neville, Sheffield
Hopkins, Claude A., Merthyr Tydvil
Hughes, John Davies, Manchester
Hughes, Thomas Edward, Mold
Hulme, Jasper Edward, Pendleton
Humphreys, Ernest B., Manchester
Hutchens, Hugh Pashley, Holt
Hutchinson, A., Stockton-on-Tees
Ingle, George Edward, Whittlesea
Inglis, Robert, Glasgow
Innes, Joseph Green, Aberdeen
James, Ernest W. H., North Shields
Jenkins, David T., Pembroke Dock
Jewell, Frank, Market Harborough
John, Morgan, Treorchy
Jolly, Frank Humphrey, Norwich
Jones, David Llewellyn, Llandudno
Jones, David Pugh, Ealing
Jones, David Thomas, Talgarth
Jones, Thomas John, Talgarth
Jordan, Ernest Samuel, Exeter
Kennedy, Alexander, Dumfries
Kent, Arthur Stanley, Brighton
Kerr, James, Sunderland
Knight, Alban T., Wookey Hole
Laidlaw, Robert, Anerum
Lakeman, Jasper A., Leytonstone
Legee, William Alexander, Norwich
Lewis, David John, Newport
Lilley, William Robert, Birmingham
Lockerbie, James, B., Edinburgh
Long, Francis Henry, Fishponds
Low, Charles P., Chester-le-Street
Lowe, Frances W., Bristol
Macdonald, Charles A., Elgin
Macoolyn, Henry M., Ramsgate
Martin, Thomas, Arbroath
Matthews, William, Cirencester
Meakins, John James, Dorking
Menzies, Robert Blair, Pitlochry
Mercer, William, Edinburgh
Michie, John Thomas, Kinross
Mills, Frederick Charles, Leicester
Mitchell, Thomas, Glasgow
Muscott, Rowland W., Birmingham
Nixon, Kenneth, Heckington
Norton, William John, Liverpool
Oddie, Major Sidney, Banbury
Ormiston, Adam W., Edinburgh
Owen, Ebenezer Denis, Rhyl
Parry, Bernard P., Wymondham
Payne, Wm. H., Haverfordwest
Pickering, Ernest F., Birmingham
Pickering, Samuel D., Liverpool
Porter, Robert Albert, Wisbech
Potter, John Lowthian, Lazonby
Potter, William, Plaistow
Pym, Ernest Henry, Pontypridd
Randall, Sophia E., Tottenham
Richardson, Philip, Market Rasen
Robb, David Wallace, Glasgow
Roberts, Henry T. T., Welshpool
Roberts, James, Penzance
Roberts, William Henry, Chester
Robertson, George G. C., Carnoustie
Robinson, Thomas Arthur, Burnley
Roch, Henry John, London
Ro s, Albert, Nottingham
Ross, Robert, Aberdeen
Rosser, George Gethin, Neath
Russell, William Alex., Glasgow
Saunders, Herbert, Lewes
Scott, John Wilson, Birmingham
Seeley, Charles E. L., Torquay
Shaw, Arthur Victor, Honley
Shilcock, Sidney John, Atherstone
Smith, Foster, Cleckheaton
Smith, George Ennis, Woodsetton
Smith, Harry, Woodhouse
Smith, Herbert James, Lancaster
Spencer, Herbert, Southwark
Spier, Edward Jenner, Cheltenham
Strange, Frank Alexander, Hereford
Strong, James Branford, Deal
Sutherland, Alexander, Portsoy
Swann, Henry W. M., Peterboro'
Thew, George Richardson, Hexham
Thomas, A. G., Barrow-in-Furness
Thomas, David Jenkin, Llanelly
Thomas, Frank Holliday, Boston
Thomson, Charles Harry, Liverpool
Vance, John, Sheffield
Vibert, Samuel Howard, Totnes
Voice, Reginald H., East Grinstead
Waters, William Landle, Southport
Watson, Charles Herbert, Derby
Watson, John, Dumfries
Watson, John Fraser, Sheffield
Waugh, Herbert, L., Southport
Wavell, Edward Tharle, London
White, James Albert, Bradford
Whyatt, Percy, New Basford
Williamson, Joseph B., Liverpool
Wilson, Erasmus Philip, Bath
Wilson, William Matthew, Coventry
Wright, John, Edinburgh
Yapp, Helen M., Birmingham
Young, Walter, Stockport

Trade-Marks Applied for.

Any person who has good grounds of objection to the registration of any of the following marks should *at once* communicate with Sir Reader Lack, Comptroller-General, at the Patent Office, 25 Southampton Buildings Chancery Lane, London, W.C.

(*From the "Trade Marks Journal," April* 10, 1895.)

"R.I.B."; for bicarbonate of soda for use in manufactures. By Bowman, Thompson & Co. (Limited), 13 Harrington Street, Liverpool. 183,788.

"Vigorine," and device of cock and hens; for a medicated preparation for poultry and other birds. By Dobbie & Co., Dobbie's Wharf, Old Bridge End, Leith. The essential particular is the device. 185,110.

"Klorinselikro"; for medicated lozenges. By Clarke, Nickolls & Coombs (Limited), Hackney Wick, London. 186,119.

"The Star Infants' Feeding-bottle," and device of star in circle; for feeding-bottles. By Ayrton & Saunders, 149 Duke Street, Liverpool. The essential particular is the device. 185,545.

(*From the "Trade Marks Journal," April* 17, 1895.)

Device of three linked rings and motto on drapery and initial letters of firm; for instruments and apparatus, &c, for surgical or curative purposes. By Southall, Brothers & Barclay, 17 Bull Street, Birmingham. The essential particular is the combination of devices. 184,935.

(*From the "Trade Marks Journal," April* 24, 1895.)

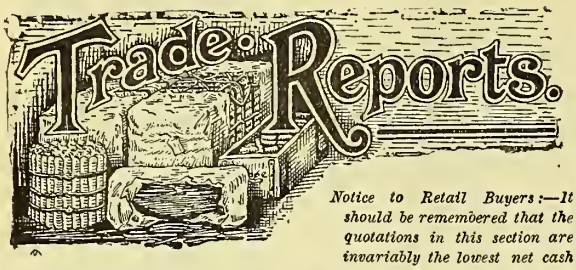
"Sanjana"; for chemical substances used in medicine and pharmacy. By Portway Brothers, 1 Cargreen Road, South Norwood, S.E. 186,138.

"Ajax Brand," and pictorial representation of Ajax; for linseed and other oils and turpentine. By Griffiths, Knight & Co., 50 and 51 Ford Street, Liverpool. The essential particular is the device. 185,933.

"Carter's Mineral Waters"; for artificial mineral and aërated waters. By H. W. Carter & Co., Old Refinery, St. Paul's, Bristol. 178,982.

"Ogo"; for perfumery and toilet articles. By Wm. Mottram, 95 Fleet Street, London. 185,883.

The Polyglot Coroner.—Coroner, preparing to hold an inquest on an unknown Italian, to small Italian boy, who is the only witness: "Where do you live, my boy?" Boy shakes his head. "Do you speak English?" Another shake. "Do you speak French?" Another shake. "German?" No answer. "How old are you?" No reply. "Have you father and mother?" No reply. "Do you speak Italian?" Boy gives no sign. Coroner (despairingly): "Well, gentlemen of the jury, I have questioned the witness in four languages, and can get no answer. It is useless to proceed. The court is adjourned."



Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

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42 CANNON STREET, E.C., *April* 25.

A CONDITION of moderate activity has prevailed in the drug and chemical markets since our last report, both as regards the home and the export departments, and there are indications that this will not only be maintained in the near future, but that there will be a gradual, though probably a slight, improvement. In the United States, to which many of our manufacturers and exporters look for a lead in imparting a tone to the market, trade also appears to be mending, and the better feeling reported from the other side of the Atlantic, as well as the improvement in the Eastern trade, are beginning to react upon our own markets. The Bank rate still stands at 2 per cent.; the price of silver has fluctuated all through the week, but closes a turn easier at $30\frac{9}{16}$*d.* per oz. for bar-silver. The principal alterations in the position of crude drugs, which are specified in detail below, may be summed up as follows:—*Crude camphor* has made a further considerable advance during the week, Turkish *Colocynth* is dearer by several pence, *Star-anise oil* has also improved, and *Citronella* oil is still tending higher. Chinese *Soy* is again dearer, and *Insect flowers* remain steady. *Jalap*, which is arriving freely, looks like coming down, *Turkey* (*Soudan*) *sorts* of gum acacia are easier. *Menthol* and *Japan wax* are firmly held. *Opium* is a very irregular market, Persian and soft shipping being in demand at somewhat improved rates, while druggists' kinds are neglected. *Orris-root* is tending higher, and good *Civet* is held for very high prices. The principal change in chemicals has been a further decline of 1*s.* per oz. in *Cocaine*. *Mercurials*, owing to a 5*s.* rise in *Quicksilver*, have all been advanced, but *Refined camphor* has not moved. *Carbolic-acid crystals* are firmer and in demand; *Cream of tartar* and *Tartaric acid* show an improvement, while *Citric acid* is very firm. *Caffeine* is now almost at famine rates, very little being procurable for prompt delivery. *Quinine* is decidedly firmer, with prospects of improvement. *Sulphate of copper* firm. *Heliotropine*, which, like *Cumarin*, is now being made by new manufacturers, and of which the output exceeds the requirements, is tending lower. In articles of more indirect interest to druggists a steady tone prevails. *Heavy chemicals* show few alterations. *Turpentine* has advanced slightly, closing at 22*s.* 6*d.* per cwt. for American on the spot. The *Petroleum* boom is off for the present. American oil has receded to $8\frac{3}{4}$*d.*, Russian to 8*d.* to $8\frac{1}{4}$*d.* per gallon on the spot. *Rape oil* keeps steady at 22*s.* 6*d.* for refined, and 20*s.* 9*d.* to 21*s.* for crude. *Cotton-seed oil* barely maintains its price: refined is worth 18*s.* to 19*s.*; crude, 15*s.* $10\frac{1}{2}$*d.* to 16*s.* per cwt. on the spot. *Palm oil*, *Olive oil* and *Cocoanut* oil are slow of sale. *Linseed oil* falling; barrels, 20*s.* per cwt. The quarterly sales of East Indian *Indigo*, which were held this week, have resulted in very few alterations, although a few varieties suffered a drop of from 2*d.* to 3*d.* per lb. compared with the preceding auctions. The demand was very good, particularly that for export. Spices are generally quiet, especially as regards *Black* and *White pepper*, *Arrowroot*, *Nutmegs*, *Mace*, *Cloves*, *Chillies*, and *Capsicums*. *Ginger*, however, keeps very firm for all varieties, and new West Indian *Tamarinds* have also been sold at fairly good rates. Drysalteries are quiet, but *Shellac* keeps exceedingly firm. *Gambier* is strong, *Chinese galls* without alteration, *Cutch* quiet, and *Turmeric* slow of sale.

The Liverpool Drug-market.

Our correspondent, writing on April 24, says that *Gum acacia sorts* are quiet, but steady, with slight business passing at recent quotations. *Brazilian acacia* meets with some little inquiry, and some new arrivals will shortly be on the market, when a good competition is expected. Large sales have been made of *African ginger*, but without establishing a decided advance on last quotations, the prices during the week ranging from 25*s* to 27*s* 6*d.* per cwt., 300 bags having been sold at the former figure. Thirty-nine bags good *Cochin* sold at 39*s.* per cwt. *Kola nuts* continue to meet with a ready sale; 10 bags sold at 10*d.* and 15 bags at 11*d.*, while prime dry are held for 1*s.* 3*d.* per lb. *Cream of tartar* has improved during the week, the quay having been cleared at 66*s.* per cwt., and holders talk of more money. *Balsam copaiba* has been in demand; the market has been cleared of all offering on the spot, both *Pará* and *Maranham*. *Castor oil* has maintained the recent advance, and now *Good seconds Calcutta* are held for $2\frac{1}{2}$*d.* per lb., while *First pressure French* is held for $2\frac{1}{16}$*d.* per lb.; *Madras* is now quoted 2*d.* to $2\frac{1}{32}$*d.* per lb. More business has been done on *Beeswax* at the high prices lately paid; 7 casks prime *American* realised 8*l.* 5*s*, while some choice *Chilian* fetched 9*l.* 2*s.* 6*d.* Five blocks of *African* (*Sierra Leone*) sold at 6*l.* to 7*l.* 5*s.* per cwt., according to quality. *Guinea grains* have improved in position; 17*s.* per cwt. has been paid; holders will only offer sparingly, as they look for still better prices. *Honey* of all grades is very firmly held, especially *Chilian*, which is being affected by the short arrivals of new crop. *Calabar beans* have been sold in small lots at $1\frac{3}{4}$*d.* to 2*d.* per lb.

The Liverpool Oil and Chemical Markets.

Our correspondent writes on April 24:—"No very great changes have occurred during the past week, still the amount of business transacted has increased in volume, especially in the heavy chemicals and olive oil. *Acids: Tartaric* dearer; English, $10\frac{3}{4}$*d.*; foreign, $10\frac{1}{2}$*d.* per lb.; *Oxalic* firm at $3\frac{3}{4}$*d.* *Soda: Ash* steady at 3*l* 15*s.* to 5*l.* per ton; *Caustic* scarce, and good inquiry at 7*l.* 15*s.* for 70 per cent.; *Crystals* very quiet at 2*l.* 10*s.* per ton, f.o.b.; bicarbonate selling freely at 6*l.* 15*s.* to 7*l.* per ton; *Bichromate* scarce at $3\frac{3}{4}$*d.* per lb.; *Nitrate* lower at 8*s.* 2*d.* per cwt. *Potashes: Pot* and *Pearl* inactive at 22*s.* 6*d.* and 42*s.* 6*d.*; *Prussiate* steady at $9\frac{1}{2}$*d.* per lb.; *Bichromate* firm at $4\frac{5}{8}$*d.* per lb.; *Chlorate*—the market remains steady; $4\frac{3}{8}$*d.* is the price. *Ammonia: Sal ammoniac* in steady request at 39*s.* per cwt for best; *Sulphate* has declined to 10*l.* per ton, f.o.b. *Bleaching-powder* quiet at 7*l.* per ton in casks Liverpool. *Sulphur* remains quiet at 5*l.* 10*s.* for roll. *Copperas* selling steadily at 36*s.* per ton, f.o.b. Liverpool. *Cream of tartar*, 67*s.* to 68*s.* for best white. *Sulphate of copper* firm at 15*l.* 10*s.* per ton. *Lead acetate* quiet at 27*l.* 10*s.* for white. The oil-trade is steady in most of its departments, and it is difficult to get a firm offer for some sorts of *Olive oil*. For *Palm oil* there is a steady demand, with small arrivals. *Lagos* is quoted at 21*l.*, and other makes at 18*l.* 10*s.* to 19*l.* 10*s.* *Olive*—there is a good business doing at full prices, Naples about 38*l.* 10*s.*, Levant at 31*l.*; a fine lot of Syrian sold to-day at 30*l.* *Linseed*, of Liverpool make, steady at recent advance, 21*s.* 6*d.* *Cotton-seed* (refined) firm at 19*s.* per cwt. *Petroleum* remains firm, American at $8\frac{3}{4}$*d.* to $11\frac{1}{8}$*d.*; Russian is $\frac{1}{2}$*d.* per gallon lower, being now quoted at 9*d.*

Smyrna Opium Telegram.

Our correspondent in Smyrna, telegraphing on Wednesday afternoon, states that 120 cases of fair manufactured opium have been bought by American firms at the parity of 7*s.* 3*d.* per lb., f.o b. Smyrna. The market closed firmly.

The Amsterdam Drug-market.

Our Amsterdam correspondent, writing under date of April 23, observes that up to the present 6,174 packages of Java *Cinchona* bark, representing a weight of 548,384 kilos., have been declared for sale on May 9. They consist of 462,240 kilos. Ledgeriana, 64,388 Hybrid, 19,918 Succirubra, and 1,838 Officinalis. The position of the market remains very strong, and there are no sellers by private treaty at the unit price of the last auctions.

The Flower-crops in Southern France.

We hear from Grasse that the violet-crop is now at an end. The result, so far as quality is concerned, has been rather below the average. The orange-flower crop is also likely to be a small one, for the trees are flowering very poorly. The flowering is, moreover, almost unprecedentedly late, and the gathering of the flowers will not begin in earnest before the middle of May. So far as rose-products are concerned, the prospects are not quite so bad; but the crop is not likely to equal that of the few seasons immediately preceding the present. The plantations generally appear rather weakly.

Syrian Colocynth.

The U.S. Consul at Jerusalem has sent home an interesting report on the trade in colocynth in his district, from which we abstract the following:—"Colocynth grows abundantly on the plain between the mountains of Palestine and the eastern shore of the Mediterranean. It is found from below the city of Gaza on the south to the base of Mount Carmel on the north. The plant grows wild, and if properly cultivated would undoubtedly bear larger fruit—richer in the pulp which makes the colocynth valuable. But there is no object in thus improving the yield, as nature supplies far more than the natives can find a market for. The soil of the arid plain which produces colocynth is a light-brown loam, very rich, and almost without a stone. The plant seems to thrive best in places where the loam has been mixed with sand, and does not suffer from lack of moisture. The climate is warm, and during the summer the heat is intense. The plant itself resembles the common cucumber, but its fruit is globular, about the size of an orange, of a light-brown colour. Its rind is smooth, thin, and parchment-like. It is known as the Turkish colocynth, and is superior to the Spanish and Mogador varieties in the amount of pulp its fruit contains. The pulp constitutes 25 per cent. of the fruit. The rind and seeds are valueless. The peasants gather the fruit in July and August, before it is quite ripe. It is sold to Jaffa dealers, who peel it and dry the pulp in the sun. It is then moulded into irregular small balls, packed in boxes and shipped, mostly to England. The average annual shipment from Jaffa is 10,000 lbs., though the 1894 exports amounted to only about 6,000 lbs. The quantity could be increased indefinitely if there were more demand for it and a price were paid that would make it an inducement for the peasants to gather and prepare it. The price now paid for the colocynth-pulp, prepared, packed for shipment, and delivered on board the steamers in the port of Jaffa is about 1*s.* 3*d.* per lb."

The Red Sea Gum Acacia Trade.

The exports of gum acacia from the port of Suakin, on the Red Sea, decreased from 56,855*l.* in value in 1893 to 39,320*l.* in 1894. "The competition amongst the houses that handle this article," says the British Consul, "is so keen that the profit rarely exceeds 2 per cent. The season ordinarily opens in April, when the new gum begins to find its way down to the coast, and continues more or less till nearly the end of the year, being at its height about the month of July. In 1894, owing partly to drought in the gum-producing districts, and partly to an attempt made by the Khalifa Abdullah to impose a tax upon the trees from which the gum is collected, very little came down from the interior, and when the stock of old gum showed signs of exhaustion prices advanced rapidly. The present quotation of about 48*s.* per cwt. is a nominal one, there being little or no gum on the market. It will probably soon decline, the prospects of the new season being said to be exceptionally favourable. If, as is stated, the original Kordofani collector only receives from $1½ to $2½ per cwt. at the water's edge, and camel transport from Berber to the coast, which is the only land transport involved, costs from $2 to $4 for the same weight, there is an ample margin for someone to make a profit. In the present condition of affairs, however, all merchandise coming from beyond Khartoum is subject to toll at three points on the journey—first by the Khalifa himself at Omdurman, next at Berber, and again at Kokreb by the Bedouin who holds the wells. It is these successive impositions, more or less variable in amount, that render the transport so costly."

Acetanilid.—Tending lower; one of the makers now quotes 1*s.* 3*d.* per lb., but we believe that others are offering at even lower figures.

Acid (Carbolic).—There has been a continued good demand for *Crystals*, and a considerable business has been done at 5¾*d.* per lb. for 34 to 35° C. crystals. The business has been mainly for export, and it is now difficult to get anything for prompt delivery. *Crude* 60 per cent. is quoted at 1*s.* 6*d.* to 1*s.* 7*d.*, 75 per cent. at 1*s.* 9½*d* to 1*s.* 10½*d.*; *Cresylic*, 95 per cent., at 10*d.* to 1*s* per gallon. *Crystals*, 39° to 40° C. are held for 6¼*d.* to 6½*d.* per lb.

Acid (Citric).—In fair demand, at 1*s.* 1¾*d.* to 1*s.* 2*d.* per lb. Concentrated *Lemon-juice* is quoted at 13*l.* 10*s.* to 13*l.* 15*s.* per pipe f.o.b.

Acid (Tartaric).—Rather dearer. *English* brands at 10¾*d.* to 11*d.* per lb.; *foreign*, 10⅝*d.* to 10¾*d.* per lb.

Arsenic.—Still held at 14*l.* 15*s.* per ton for best white powder, landed terms.

Asafœtida.—A very large quantity will again be offered for sale next Thursday. One broker alone has declared about 450 cases, and if he intends to sell it is probable that there will be a further decrease in the price.

Balsam (Copaiba).—Very firm. Business has been done in good *Maranham* at 1*s.* 9*d* per lb. for good quality. A parcel of the last-named variety is now on the way, and is held for 1*s.* 7*d.* per lb., a bid of 1*s.* 6*d.* having been already declined.

Balsam (Peru).—There is nothing here at present in the hands of the importers. Six cases have arrived this week, but they were in transit. The price is from 9*s.* 6*d.* to 10*s.* per lb. nominally for good quality on direct import.

Balsam (Tolu).—Firmly held, at 1*s.* 3*d.* for good bright quality. A parcel of 5 cases is now being landed.

Benzoin.—The subjoined figures represent the exports of benzoin from the Port of Padang, in Sumatra, which is the principal, and for this particular article almost the only, shipping port in the island. The statistics are of interest as showing the steady increase in the production of the drug, which of late years has been increased by the benzoin produced in the island of Java from cultivated trees:—

Year	Piculs (133⅓ lbs.)	Year	Piculs (133⅓ lbs.)	Year	Piculs (133⅓ lbs.)
1858 ..	2.525	1871 ..	4,405	1884 ..	4,441
1859 ..	4.266	1872 ..	5,506	1885 ..	4,678
1860 ..	2.102	1873 ..	4,719	1886 ..	5,616
1861 ..	3.040	1874 ..	6,148	1887 ..	6.223
1862 ..	2.919	1875 ..	6,604	1888 ..	4,640
1863 ..	4.828	1876 ..	5,818	1889 ..	5,033
1864 ..	2.423	1877 ..	4,852	1890 ..	4,513
1865 ..	3.087	1878 ..	7,125	1891 ..	4,848
1866 ..	3,026	1879 ..	5,380	1892 ..	6,298
1867 ..	5,140	1880 ..	4,911	1893 ..	6,011
1868 ..	6.395	1881 ..	6,165	1894 ..	7,298
1869 ..	5,071	1882 ..	5,683		
1870 ..	3,319	1883 ..	4,490		

Bleaching-powder.—The spot price is 7*l.* to 7*l.* 15*s.*; Liverpool quotes 7*l*, f.o.b. or on rails, and for export to the Continent 6*l.* 10*s.* The Tyne quotation is 7*l.* f.o.b.

Caffeine.—Several sales of small quantities have been made since last week on the spot at 25*s.* per lb. For August delivery the quotation would be about 23*s.* per lb. now.

Camphor (Crude).—There appears to have been a good deal of speculative business since our last report, and prices close decidedly higher, although with a rather unsettled feeling. *Chinese* (*Formosa*) camphor is reported to have been sold at from 97*s.* 6*d.* per cwt., c.i.f., up to 102*s.* 6*d.* per cwt, c.i.f., for April–June shipment. On the spot 112*s.* 6*d* to 115*s.* is asked for this variety. For *Japanese* camphor the quotation is nominally 115*s.* per cwt., c.i.f., and the chief holder of first-hand stock on the spot requires 135*s.* per cwt. In the Chinese ports the article is reported to be very excited; cablegrams quote 108*s.* per cwt, c.i.f., as the price for shipment. The last mail report from Hong Kong says: "On March 15 telegrams came in reporting that Japan had certain designs on the island of Formosa. As soon as this became known another of these wild movements, recently so common, set in, and prices were driven up from $43 to $50 per picul within a few hours. Since then the market has been fluctuating, but it is difficult to give a closing quotation, as the position is changing almost every hour. We estimate transactions during the last few days to have been nearly 3,000 boxes, almost entirely amongst speculators, as there has been hardly any buying for export, the home markets, though also firmer, not having reached the equivalent on this side as yet. The future of our market will be entirely guided by political events."

Camphor (Refined) unaltered at present. The second-hand stock, which is thought to be rather heavy, probably prevents an advance in the refiners' quotations.

Chlorate of Potash, quiet, at 4½*d.* per lb. in London' and 4⅝*d.* f.o.b. Liverpool.

Cinchona.—Up to the present seven brokers have declared cinchona-bark for sale on April 30. The total quantity declared amounts to 1,989 packages, of which 183 are Ceylon, 1,310 East Indian, 100 Javan, 94 African, and 302 Cuprea bark. A parcel of H. F. Bolivian *Calisaya* of 90 bales, which has recently arrived, has been sold privately at a good price. It is said that no further arrivals are to be expected for some time because the rainy season has set in in the collecting district.

Civet.—Fine qualities remain very scarce; for good genuine 35*s.* per oz. is now asked.

Cloves.—Very dull of sale. At auction a few lots of good bright pale picked *Penang* sold at 7½*d.* per lb. *Zanzibar* cloves dull and neglected; fair to fine bright at 2½*d.* to 2¾*d.* per lb.

Cocaine.—On Wednesday night the cocaine manufacturers again reduced their price for *hydrochlorate* by 1*s.* per oz., their present quotation being for lots up to 25 oz., 18*s.* 9*d.*; from 25 to 100 oz, 18*s.* 6*d*; 100 oz. or more, 18*s.* 3*d* per oz.; 1-oz. bottle 3*d* per oz extra. It is said that the decline is owing to the fact that crude cocaine is arriving more freely.

Colocynth.—The market is very badly supplied, and higher prices have been paid this week. In good *Turkish* business is reported to have been done at from 1*s.* 9*d.* to 1*s.* 11*d.* per lb., 2*s.* being now asked. Of *Spanish* colocynth one ton is offering for shipment at the rate of 1*s.* per lb. for fair average quality. It is generally expected that there will be a further increase in the price of this article.

Copper (Sulphate).—Firm at 14*l* 15*s.* per ton in London for ordinary quality, and from 15*l.* to 15*l.* 10*s*, f.o.b., in Liverpool.

Cream of Tartar.—Rather dearer, at 66*s.* per cwt. for best white French *Crystals* on the spot, or 64*s.*, f.o.b, Bordeaux. Sales have been made at the last-named price. German *Powder*, 68*s.* per cwt.

Cumin-seed.—*Maltese* seed is rather scarce.

Ergot of Rye.—Very lifeless, scarcely any business having been done for several weeks. The last quotation for fair to good *Russian* was from 7*d.* to 7½*d.* per lb.

Galls (Chinese).—According to telegrams received from China the total exports for the first quarter of the year have been only 1,400 cases, against 4,000 cases in the same period of 1894. Sales of fair quality for arrival are reported at 55*s.* per cwt. c.i.f. terms; on the spot 60*s.* per cwt. is the value.

Ginger.—Both *Jamaica* and *Cochin* ginger are firmly held. At auction 551 barrels of the first-named variety were offered, and mostly sold at full rates:—Good to fine bright bold, from 83*s* to 90*s.* 6*d.*; medium to good bright washed, 62*s.* 6*d.* to 70*s.*; low medium lean and brownish to low medium bright, 56*s* to 61*s.* 6*d*; common to good common Rhatoon, 52*s.* to 53*s.* 6*d* per cwt. Of 760 bags *Cochin* ginger, 460 sold at 35*s.* 6*d.* to 37*s.* 6*d.* for dull to fair bright washed, and 38*s.* to 38*s.* 6*d.* per cwt. for good bright brown rough. Native half-cut sold at 46*s.* to 47*s.*; small to medium, 47*s.* 6*d.* to 55*s.*; and bold A cut, 67*s.* per cwt.

Glycerine.—Very firmly held. The generally quotation for best double-distilled, s.g. 1·260, is 48*s.* to 50*s.* per cwt.

Gum Acacia.—The public sales of acacia gum which were held to-day did not include anything of particular interest, and passed off very quietly, only a small proportion being sold. *Soudan* sorts, of which some good parcels were offered, are rather easier. The total quantity of Soudan gums offered for sale was 208 packages, of which 33 sold at 62*s.* to 63*s*, for good pale sortish; 53*s.* to 54*s*, for medium hard rather dull; and 47*s.* 6*d.* for ordinary dull quality. Of 71 bags *Australian* only 7 bags sold at 32*s.* 6*d.* per cwt. for fine frosted palish. Of *Aden* gums the sales included 225 packages, 22 of which found buyers at 38*s.* up to 46*s.* for good to fine pale frosted, and from 35*s.* down to 25*s.* for medium to ordinary; fair siftings realised 22*s.* Several parcels of *Senegal*, *Barbary*, *Cape* and *Persian* gums were bought in. Of East Indian varieties 1,185 packages offered, of which about 300 sold; *Bombay Amrod* fair brown, 26*s.* 6*d.* to 27*s.*; yellow, 27*s.* 6*d.*; ordinary mixed *Cawnpore*, 26*s.*; ordinary to good ambery *Kurrachee*, 32*s.* 6*d.* to 40*s.*; siftings, from 21*s.* to 28*s.* per cwt. Good palish *Ghatti*, 35*s.*; dark to pale mixed *Oomra* from 25*s.* up to 32*s.* 6*d.* per cwt.

Gum Tragacanth.—The demand for *Persian* gum has fallen off considerably since the last public sale, and only a few parcels have changed hands, mostly of ordinary quality. The present quotations are 13*l.* 5*s* per cwt. for best white, 12*l.* to 12*l.* 15*s.* for seconds, and 10*l.* to 11*l.* 10*s.* for thirds. *Smyrna* tragacanth in small supply; some sales of second quality have been made at 10 guineas per cwt. First is held at 12*l.* The exports of tragacanth from Turkey in the course of the last four years for which statistics are available are estimated to have been as follows:—

	1890	1891	1892	1893
Shipped *viâ*	Bags	Bags	Bags	Bags
Constantinople	3,560	3,180	4,268	4,840
Smyrna	1,080	750	820	860
Total, in bags of about 1½ cwt. ..	4,640	3,930	5,088	5,700

Heliotropin.—Offering cheaply at 35*s.* per lb.

Insect-flowers.—The increased prices asked from Trieste have stopped business to some extent. A fair inquiry, however, still exists for *Powder*, which sells at 10½*d.* per lb, London terms, net, for guaranteed pure quality from closed flowers.

Jalap.—There have been several considerable arrivals, amounting altogether to about 145 packages. A portion of this is very damaged, but one consignment consists of fine Vera Cruz. Some, if not most, of this jalap will probably be offered by auction on Thursday next.

Menthol.—Firmly held It is doubtful whether it is still possible to buy on the spot at 15*s.* 6*d.* per lb,, 16*s.* being more generally asked.

Morphia.—There is no alteration in prices as quoted last week, but we believe that one of the manufacturers is willing to take slightly lower rates for large contracts.

Mercurials.—In consequence of the five-shilling advance in quicksilver declared on Wednesday, the manufacturers of

mercurials have raised their quotations a penny a pound all round, the following being the present rates:—

—	Under 56 lbs. of any one sort.	For assorted lots of not less than 56 to 224 lbs.	224 to 560 lbs.
	s. d.	s. d.	s. d.
Calomel .. .. .. per lb.	2 10	2 9	2 8
Corrosive sub. .. .. „	2 6	2 5	2 4
Red precipitate .. „	3 1	3 0	2 11
„ „ levig. .. „	3 1	3 0	2 11
White „ .. .. „	3 1	3 0	2 11
Persulphate .. .. „	2 2	2 1	2 0
Sulph. with sulphur .. „	2 0	2 0	1 1
Mercury with chalk .. „	1 0	1 0	1 0

Had the quicksilver-rise, which was generally expected, been half-a-crown only, the makers of mercurials would have made no change in their quotations.

Nux Vomica.—It is reported from Calcutta, under date of April 3, that the supply in that market is very small. It amounts to only about 1,000 maunds, and is held by one speculator, who is asking higher prices.

Oil (Cod-liver).—According to one importer, the result of the cod-fishing for the whole of Norway during the last three seasons, from the beginning of the season up to the date specified below, has been as follows:—

—	1895 April 13	1894 April 14	1893 April 15
Fish caught (millions) ..	52½	40	36¾
Cod-liver oil made (hectolitres)	16,274	18,248	25,550

Another manufacturer writes:—"We calculate the output of cod-liver oil—

Outside Lofoten at	3,333	hectolitres
In the Lofoten Islands at ..	11,367	„
Total of crude oil ..	14,700	„
=	12,350	barrels
Of which the estimated refined medicinal oil for exportation is represented by ..	9,250	barrels

The total catch of codfish south of Finmarken is put down at 47,400,000, with 20,550 hectolitres livers, producing 14,700 hectolitres crude oil." In London the market is lifeless. A few barrels of best new Norwegian oil are said to have changed hands at 145*s.* per barrel lately.

Oils (Essential).—*Oil of cassia* is very firm, at 5*s.* per lb. for quality testing from 70 to 75 per cent. of cinnamic aldehyde. *Clove oil* is quite neglected; good English-drawn quality is now offering at 2*s.* 2*d.* per lb. In *Peppermint oil* there is no alteration. *Oil of star-anise* is again dearer on the spot, and a fair business has been done up to 6*s.* 4*d.* per lb.; holders now require 6*s.* 6*d.* For shipment the last quotation was 6*s.* 5*d.* per lb., c.i.f. terms. It is generally said that the prospects are in favour of an early advance up to 7*s.* *Citronella oil* is very firmly held at 1*s.* 2*d.* per lb. in tins on the spot, business having been done at 1*s.* 1*d.* For shipment, 1*s.* 1*d.* per lb., c.i.f., is asked. The U.S. exported, in the course of the eight months from July 1 to February 28, the following quantities of *Peppermint oil*:—

	1893–1894	1894–1895
Lbs. ..	60,165	65,623

Opium.—There has been a fair demand lately for good quality *Persian*, for which 11*s.* 9*d.* per lb. has been paid. It is doubtful, however, whether any more can be bought at that price. The general quotation is from 10*s.* for ordinary up to 12*s.* per lb. for fine quality. *Soft-shipping* opium has also been in strong demand at from 11*s* to 11*s* 6*d.*, according to quality. *Druggists'* opium is neglected at 9*s.* to 9*s.* 6*d.* for good fine *Smyrna*, and 8*s.* to 8*s.* 6*d.* for *Second druggists'*. Our Smyrna correspondent writes, under date of April 13:—"The first and second hand stock in Smyrna, Constantinople, and the Interior is about 1,180 cases. The arrivals from the Interior up to date have been 2,332 cases, against 1,345 cases in 1893–94. The following are the current Smyrna quotations:—*Karahissar*, 8*s.* 3*d.* per lb.; *Yerli*, 8*s.* 3*d.* per lb.; *Karahissar Talequale*, 7*s.* 9*d.* per lb.; *Yerli Talequale*, 7*s.* 8*d.* to 7*s.* 10*d.* per lb.; *Current Talequale*, 7*s* 6*d.* to 7*s.* 8*d.* per lb.; *Slightly seconds*, 7*s.* 10*d.* per lb.; all f.o.b. Smyrna. Very little business has been done this week, owing to the Jewish and Greek holidays. A speculator here has sold opium to the Americans, April and May shipments, at 6*s.* 6*d.* per lb., f.o.b. The lowest buying-price to-day is 7*s.* 6*d.* This party will lose money unless our market recedes further, which will not take place unless holders are positive of a very large outturn. The above speculator, however, is in the habit of mixing inferior opium with his parcels, so as to reduce cost. The last news from the growing districts is somewhat less favourable; in the low-lying regions the continued rains are beginning to affect the crop by excess of moisture; and in the Yerli country some little damage has been done by hailstones. May is the most dangerous month of the year for the growing crop; thus in 1863, at a time when the crop only averaged about 4,000 cases, everybody was certain that it would reach the (at that time enormous) total of 5,000 cases. In the middle of May, however, hot winds damaged the crop, and the actual output was much below 3,000 cases."

Orris root.—Very firm, with a rising tendency. The stocks are very small, and the following are the present quotations:—*Florentine*, best selected 75*s.*, sorts 70*s.*; *Veronese*, from 54*s.* to 58*s.* per cwt., all c.i.f. terms.

Poppy-heads.—Sales have been made this week of 400,000 *Belgian* poppy-heads (guaranteed weight, 10½ kilos.) at 13*s* 6*d.* per 1,000, to be delivered when the new crop comes in—*i.e.*, about August.

Prussiate of Potash.—"Outside" makers have again reduced their quotations, and one brand may now be had at 8¼*d.* per lb. net terms. Other brands are quiet, at 9*d.* to 9¼*d.* per lb.

Quicksilver has hardened gradually in the course of the week until, on Monday, there were no second-hand sellers below the chief importer's price of 6*l.* 15*s.* per bottle The importers have since sold several thousands of bottles at that figure, and afterwards raised their price to 7*l*, at which it now stands. To-day there are second-hand sellers at 6*l* 17*s.* 6*d.* to 6*l.* 18*s.*

Quinine.—A very firm market. Since last week about 15,000 oz. have changed hands in small wholesale lots, at prices running up to 12*d.* per oz. for H.B. and 12⅛*d.* for B. & S. in bulk, the latter brand being rather scarce. The position is considered very sound, and favourable to a further advance, although it would probably be difficult to sell any quantity at present over 11⅞*d.* per oz. There are, however, few or no sellers. The imports of quinine and other cinchona-alkaloids into the United States during the eight months from July 1 to February 28 have been—

	1893–1894	1894–1895
Oz. ..	1,422,148	961,150

Saffron.—The Austrian Consul at Valencia observes in his annual report for 1894:—'The saffron-trade of Valencia, which is the centre of the business in Spain, has lost in importance in the course of last year. The total sales in 1894 were only 16,808 kilos., compared with 32,116 kilos. in 1893. This is the more remarkable because Spain is now the only saffron-producing country of any consequence. The explanation is, probably, that the cultivators of saffron in the interior are gradually accustoming themselves to enter into direct relations with the producers abroad, and to ship to them without the intervention of the Valencia middlemen." The Consul does not think that this system operates to the advantage of the buyer abroad, because that person does not, in purchasing from the producer, receive the guarantee of correct weight which he obtains when buying through a sworn broker in Valencia; moreover, that city offers him a better selection, as almost every district produces a slightly different quality of saffron. "Saffron," continues the Consul, "is a costly crop to produce; the large outputs of recent years have kept prices down; and the peasants have, therefore, this season thinned the bulbs out very considerably, thereby decreasing the output."

Senna.—Sales are reported on fine picked *Alexandrian* leaves at from 11*d.* to 11½*d.* per lb.

Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications with, if desired, a distinctive nom-de-plume.

Lawrence *v.* Dwyer.

Sir,—As the counsel for Mr. Dwyer in this case, I desire to be allowed to state that I advised him to consent to the nominal fine of 1*s.* (with the agreed costs) in preference to an adjournment, and I did so simply on the ground of expense. To have employed a couple of expert analysts, and to have them in attendance as expert witnesses, would, in addition to the further legal expenses, have been a severe tax upon my client which would not have been materially relieved by an allowance of two or three guineas costs at the final hearing. My instructions and the information I had personally obtained at Apothecaries' Hall left no doubt but that iodine is very volatile in its nature, and in water requires some time to dissolve. Under these circumstances an analysis of a liquid from which the iodine had evaporated would have been a useless expense which the analysts themselves would have emphasised by explaining the volatile nature of the "halogen." I think the interests of members of the Pharmaceutical Society in protecting them from charges of this nature might well be actively guarded, and that representations should be made to the Home Office upon the subject.

Yours faithfully,

3 Pump Court, Temple, April 18. R. D. Yelverton.

Sale of Carbolic Acid.

Sir,—Last week, writing on "Carbolic-acid Poisonings," you allude to the case of Emily Stringe (or, to be correct, Emily Strange, senior) as follows:—"She looked haggard and strange; nevertheless, she got the acid and swallowed it shortly afterwards"; meaning, I take it, great negligence on the part of seller.

Now, I am inclined to think your somewhat cynical remark uncalled for.

At the inquest one of the witnesses stated in evidence that of late she had been very strange and peculiar, but that on the Wednesday morning (the day of purchase) she seemed all right. When making the purchase she certainly conversed in a quiet and rational manner. And, further, she had been a nurse, was a great sufferer from eczema, and I had supplied her with the acid for two years or more.

The Coroner, in summing-up, pointed out that every precaution had been taken by the chemist, and was under the impression that carbolic acid was a scheduled poison. On my informing him to the contrary, he put the query, Not in part 2? I stated that the Pharmaceutical Society had tried to get it placed on the list but had not succeeded. The only question put by one of the jury was as to whether 1 oz. was not a large quantity to supply at a time. Of course I replied that it could be purchased by the quart or gallon at any store or oil-shop.

Yours, &c.,

Pimlico, S.W., April 22. The Seller of the Acid. (34/60.)

A Friendly Feeling.

Sir,—When Keating resumed advertising insect-powder a few weeks ago we wrote him asking what grounds he had for saying in the advertisement, "No other powder is effectual"—a statement they published during last year also.

In reply, the manager informed us that we were the first who had complained of the statement, which had been made for years, and was probably correct when first made. As they wished to maintain friendly relations with the drug-trade, it would be withdrawn at once.

As you will see, that has been done.

We are, yours, &c.,

Dundee, April 20. Cummings Bros.

A Remarkable Mouse.

Sir,—A customer of mine bought from me a packet of Battle's Vermin-killer for killing mice. Having only one mouse in the house (he is sure of this), he gave it at three times on bread-and-butter. The mouse is still alive. He complained to me about it, so, to make sure the poison was there, I mixed him about 8 gr. strychnine and 1 dr. of arsenic with some flour coloured with lime-blue and flavoured with ol. anisi. He also gave this at three times, and actually saw the mouse leave its hole, partake of its deadly meal, and then go back to its hole again seemingly happy and contented. He had the last quantity on Wednesday from me, and gave it that night and following two nights, and to-day he says the mouse is as lively as ever, and has not even shown signs of sickness. Have you ever heard of such a thing before? Perchance some of your subscribers may give a reason for such extraordinary conduct. I should like to know what my brother-chemists think about it.

Yours very truly,

Birmingham, April 20. J. G. Thompson.

[Perhaps it is a veteran mouse which has escaped from a local physiological laboratory.—Ed.]

A Chemical Experiment.

There was a small boy of Kintore
Mixed sugar with pulv. potass. chlor.;
Then vitriol he dropped on the powder—and "hopped"—
We shall never see him any more.

Vernon.

Glasgow and Pharmacopœia Revision.

Sir,—Would you be good enough to make the following corrections, in connection with report of suggestions towards a new Pharmacopœia, in The Chemist and Druggist for next week, and oblige? Yours faithfully,

Alex. Laing.

Page 574, column 2, line 2 from foot, read "cinnamon-water, 2 oz."

Page 575, after oleate of mercury, insert "20 per cent."; and as a diluent for "vaseline" read "white petroleum-jelly."

94 West Regent Street,
April 23.

[Mr. Laing writes as Secretary of the Glasgow and West of Scotland Pharmaceutical Association. In justice to ourselves, we should say that the formulæ supplied to us and printed on pages 574–5 were in Mr. Laing's handwriting. The inaccuracies now corrected are in the MS.—Ed. *C. & D.*]

Postcard Grumbles, B.P. 1885.

Sir,—*Re* mist. cretæ included in the Glasgow List.—There are other two ways of meeting the difficulty dispensers find in storing this:—(1) Use 12 gr. p. tragac. in place of the gum. acaciæ in the 1885 formula; or (2) simplify the pulv. cret. aromat. (certainly omit saffron) and employ it as some country chemists have done for years. Both are entirely satisfactory.

Yours truly,

C. C. (33/59.)

MISCELLANEOUS INQUIRIES.

19/33. *Boron.*—If you want to get a full explanation of the effect upon the blood of drinking liquids less or more, we must refer you to such books as Huxley's "Physiology." The immediate effect of much drinking is to lower the specific gravity of the blood, but the kidneys and skin soon get rid of the excess.]

15/61. *D. S. D.*—Estimation of Uric Acid.—See *C. & D.*, March 31, 1894, page 462.

15/42. *Agricola.*—(1) Mr. L. Upcott Gill, 170 Strand, W.C., publishes a popular book on the horse which would suit your customer. The title is "Diseases of Horses," by Hugh Dalziel. Prices 1*s.* and 2*s.* (2) Tonic-powder for Pheasants:—

Sulphate of iron	ʒj.
Powdered capsicum	ʒj.
Powdered canella	ʒvj.
Oatmeal	lb. j.

Mix.

A tablespoonful of this to be mixed with the feed for fifty birds.

17/37. *E. H. H.*—You do not send your address. We only reply to subscribers or their employés.

19/10. *Argon.*—Sauce.—See *C. & D.*, January 28, 1893, page 116, and April 8, 1893, page 491.

8/23. *Pulvis.*—(1) Aperient Powder for Children Teething.—It is a pity to give infants such drastic things as jalap and scammony—better stick to plain calomel or grey powder. The latter we prefer, and in the following form:—

Hydrarg. c. cretâ	ʒj.
Pulv. sodii bicarb.	ʒij.
Saccharin.	gr. ij.

Mix, and divide into 120 powders.

A powder to be given at bedtime, and a teaspoonful of fluid magnesia with the first food in the morning.

A perfectly safe and efficacious remedy for constipation is—

Sulph. præcip...	gr. vj.
Pulv. sacch. alb.	ʒss.
Pulv. cocci	gr. j.

Fiat pulv. subtil., et div. in pulv. xij.

One to be taken every night.

(2) Threadworms in Children.—For each four years a single grain of santonin is the dose, given at night and followed by a saline (*e.g.*, a dose of an effervescing preparation) first thing in the morning. Or the following before a light supper:—

Santonin.	gr. j.
Pulv. glycyrrhiz. co.	gr. xv.

M.

This is well spoken of by Dr. P. E. Muskett.

28/1. *Ten Raa.*—We have quite enough analyses to do for subscribers without beginning to analyse for non-subscribers.

28/4. *C. N.* (Vancouver, B.C.).—We are obliged to you for the information, which, as you will have noted, we have already published.

27/14. *Chemicus.*—We have pointed out before now that Children's Powders composed as the following ere long become highly poisonous:—

Hydrarg. subchlor.	gr. j.
Potass. chlorat...	gr. ij.
P. sacch. alb.	gr. ij.

M.

Chlorates and nitrates should not be mixed with calomel, except a mercuric salt is wanted.

27/20. *Theresa.*—Saccharin Elixir:—

Saccharin.	gr. xxiv.
Sodii bicarb.	gr. xij.
S.V.R.	ʒj.
Aq. destil. ad	℥j.

Mix, and filter.

27/15. *Inquirer.*—If the tins containing the Unsweetened Condensed Milk had been sterilised, the milk run in while hot, and the tins immediately soldered, fermentation might not have ensued. Use a scruple of boric acid to each pound.

27/33. *Vessel.*—The Odour of Petroleum Oil cannot be destroyed. Citronella covers it. There is nothing which will enable it to mix clear with water.

14/59. *Contracts.*—Perhaps your information would be interesting to Messrs. Elliman.

28/45. *Rainbow.*—Bow's Liniment is a proprietary preparation, but Scotch chemists have been in the habit of selling an imitation of it for a long time. The Lin. Opii Ammoniat., B.P.C., is intended to represent it. The formula is—

Lin. saponis	℥vj.
Lin. camph. co.	℥vj.
Tr. opii..	℥vj.
Lin. belladonnæ	ʒj.
Liq. ammon. fort.	℥j.

M.

Allow to stand for a week, and filter.

No one except the proprietors of Bow's liniment (see Diary, page 262) has the right to use that title.

21/60. *Bism. Carb.*—Pilocarpine Lotion for bald spots is made 2 gr. of the nitrate to 1 oz. of a mixture of rose-water 3 parts and glycerine 1 part.

26/49. *Wheelman.*—Cycle-enamel is not applied by makers with a brush, but is floated on—that is to say, the metal parts are warmed, and the thin enamel is poured upon the part, or the part is dipped, as the case may be, and the superfluous enamel allowed to drain off.

26/10. *Cetaceum.*—Liq. Rosæ Dulc.—See *C. & D.*, September 9, 1893, page 408.

25/72. *Marsh.*—Glacial acetic acid applied twice daily will remove the wart.

27/57. *B. C.*—(1) White Oils.—See *C. & D.*, September 29, 1894, page 502. (2) You cannot make a 5-per-cent. solution of sulphanilic acid in hydrochloric acid. It is but sparingly soluble in water, and less so in acids. See page 191 of the current volume.

22/36. *F. Bates.*—Chemical Factors about Ginger.—We cannot say what amount of extractive matter, soluble in water, ginger contains; but there is no reason why you should not try an experiment or two. Take samples of unground root (bleached and unbleached), reduce to powder, and macerate 200 gr. of the powders each in 5 oz. of water for a day or two, shaking occasionally. Filter, and evaporate $2\frac{1}{2}$ oz. of the filtrate to dryness. The figures obtained will be a reasonable guide to you in examining commercial pulv. zingib. As to the ash of ginger, see *C. & D.*, December 22, 1894, page 888. The note contains about all that is known at present. By "dryness" in the note on page 763 (vol. xlv.) dissipation of the spirit is meant. Your result agrees with our statement.

22/1. *K. B.*—Water-softening Powder.—See 1894 Diary, page 383.

23/17. *Pharmacist.*—When Ung. Hydrarg. Nit. Becomes Black it has either been improperly made (which you say is not the case with yours) or the oil and lard are not pure. Have you on the latter point assured yourself by testing?

21/68. *Quæsitor.*—Brilliantine.—See 1894 Diary, page 358.

22/35 *Exhibition.*—Write to the Secretary, Goldsmiths' Company, Water-Lane, London, E.C. Every educational institution mentions the scholarships attached thereto. We cannot attempt to treat the subject generally.

"Let me know [so-and-so] in this week's issue," writes *Collier*, and he omits the essential part of all correspondence addressed to us—name and address. We have stated repeatedly that we cannot undertake to insert replies "in next issue," and anonymous queries go into the waste-paper basket, except there is some justification for our regarding the omission of the name as accidental.

11/58. *J. C.*—Carminative or Gripe Mixture for Infants:—

Sodii bromidi	℈j.
„ bicarb.	ʒss.
Ol. pimentæ	♏j.
„ carui	♏iv.
„ anisi	♏ij.
Spt. rectificat.	℥ss.
Syrupi	℥j.
Aq. ad	℥viij.

Dissolve the oils in the spirit, and add to 6½ oz. of water containing 1 dr. of French chalk. Shake well, and filter. In the filtrate dissolve the salts, and add the syrup.

Dose: One to two teaspoonfuls.

26/69. *A. O.*—Aluminium does not form black compounds, and we fear that you can get nothing to blacken it except a varnish-stain, and this will not suit for boot-protectors.

26/73. *Quinine.*—Two grains of the sulphate in each pessary is the recognised strength, but anything between that and 20 gr. may be used. You can get any form of mould made by Maw.

28/56. *L. J. H.*—Perhaps before you begin to purify the lead scum you may think of the value of lead carbonate (a few pence per lb), and whether it will pay you to spend a few shilling's worth of chemicals upon it.

30/40. *C. S F.*—Shampoo-powder.—An article similar to your sample may be made by the following formula:—

Dried carbonate of soda	℥xvj.
Powdered soap	℥xvj.
Oil of citronella	♏x.
„ lavender	♏xv.
„ bergamot	♏xv.

Mix.

Half an ounce of this to each packet, and for a pint of shampoo.

30/73. *Turpeth.*—Calcined oyster-shells consist chiefly of calcium carbonate, but with small percentages of sulphides and silicates, chiefly of barium, magnesium, iron, and other inorganic constituents of sea-water.

30/64. *Ricini.*—(1) See reply to "J. C."—(2) Diarrhœa-mixture for children and adults:—

Tr. catechu	ʒss.
Bismuth. subsalicylat.	ʒiij.
Pulv. cretæ aromat.	ʒiij.
Aq. chloroformi ad	℥viij.

M.

Dose: For an adult, half a wineglassful; from 14 to 18 years, a tablespoonful; from 10 to 14 years, a dessertspoonful, and less for younger children. Repeat twice at intervals of three hours.

We have little faith in general diarrhœa-mixtures. In many cases all that is wanted is a purge, followed by a 20-minim dose of laudanum.

30/42. *Caledonia.*—Washing and Scouring Liquid, for use where the water is very hard.—Solution of ammonia best answers the requirement. Some of the much-vaunted liquors, in which turpentine, ether, and soap also play a part owe most of their efficacy to ammonia. See 1894 Diary, page 360.

30/3. *F. J.* (Hyères).—Hair Falling off after Typhoid.—As the patient gains strength the vitality of the hair is also increased, and this is mainly a question of time. Meanwhile the patient should use the following lotions on alternate nights, brushing for at least ten minutes after application:—

Acetous Hair-lotion.

Acet. cantharidis	ʒss.
Tr. cinchonæ	ʒss.
Acid. acetic. aromat.	ʒss.
Aq. coloniensis	℥ij.
Aq. ad	℥viij.

Mix and filter.

Stimulating Lotion.

Liq. ammoniæ	ʒvj.
Spt. ammon. arom.	℥j.
Ext. pilocarpi liq.	ʒij.
Aq. rosæ ad	℥viij.

Mix and filter.

31/1. *Acne.*—Immediately after filling the tubes with the pomade place them in cold water.

31/24. *Agaricus.*—The Storm Views which you see in small glass globes are made by mixing solutions of alum and lead acetate (not too strong) and adding a little glycerine.

32/55. *Drug clerk.*—See reply to "F. J." in this issue. Erasmus Wilson's hair-lotion should suit your case particularly well.

INFORMATION WANTED.

The Editor invites, on behalf of inquiring subscribers, postcard replies to the following:—

25/35. What is Rowan's Fluid, or where obtainable?

28/61. Maker of soft gelatine capsules (empty).

35/19. Address of Parisian maker of "Anchor" brand bottles.

Next Week.

Tuesday, April 30.

Royal Institution of Great Britain. At 3 P.M. Professor George Forbes on "Alternating and Interrupted Electric Currents" (II.).

Wednesday, May 1.

Edinburgh Pharmacy Athletic Club. Annual general meeting at Pharmaceutical Society's House, 36 York Place. At 9.15 P.M.

Thursday, May 2.

Chemists' Assistants' Association, London, 103 Great Russell Street, W.C. At 8.30 P.M. Annual general meeting.

Royal Institution of Great Britain At 3 P.M. Professor Dewar on "The Liquefaction of Gases" (II.).

Friday, May 3

Royal Institution of Great Britain. At 9 P.M. Veterinary Captain Frederick Smith, on "The Structure and Function of the Horse's Foot."

Edinburgh Chemists', Assistants', and Apprentices' Association. At 9.15. P.M. Annual business meeting. Election of office bearers. "Dispensing Notes" by William F. Hay. "Ergot" by John Harris Burns.

SPECIAL-OFFER GOODS.	Full Retail Price	Minimum Cutting Price	Usual Trade Price	Special-Offer, Price Net, after the Deduction of all Discounts
Premier Vinolia Soap. (*Discount*, 19 *per cent.*) ... *One-third only of the quantity ordered will be put up in boxes each containing* 3 *tablets. The remainder will be in* 36 *tablet boxes.*	1/-	10*d.*	9/2	7/5
Vinolia Soap (Floral), 3 tablets in a box	1/6	5*d.* per tablet, 1/3 per box of 3	13/9	11/-
" " " 12-tablet boxes (each tablet in cartoon)	6/-	5*d.*	4/7	3/8
Premier Vinolia Shaving Sticks	6*d.*	5*d.*	4/-	3/2
Premier Vinolia Shaving Cakes	1/-	10*d.*	8/-	6/4
Toilet Vinolia Shaving Sticks	1/-	10*d.*	9/2	7/4
Vinolia Dentifrice, No. 2 (Premier)	6*d.*, 1/-	5*d.*, 10*d.*	4/-, 8/-	3/2, 6/4
Vinolia Medicated Soaps— Sulphur, Terebene, Carbolic, Coal Tar	1/-	3½*d.* per tablet, 10*d.* per box of 3	9/-	7/2
Blondeau Toilet Soaps, with favourite perfumes—				
Blondeau Cucumber and Glycerine Soap	1/6	4½*d.* per tablet, 1/1½ per box of 3	12/-	9/7
" Baby Soap				
" Cold Cream Soap	2/-	6*d.* per tablet, 1/6 per box of 3	16/-	12/10
" Lys de France Soap				
" Maréchal Niel Soap				
" Oriental Soap				
" Heliotrope Soap				
" Musk Lavender Soap				
" Lettuce Soap				
" Marequil Soap				
" Jequilla Soap				
" Shampoo Soap				
" White Rose and Cucumber Soap	2/6	1/10½	20/-	16/-
" Violet Soap	3/-	2/3	24/-	19/2
" Opoponax Soap				
Old English Toilet Soaps (Improved)—				
Blondeau Brown Windsor Soap	2/- per box of 12	2*d.* per tablet, 3 tablets for 5*d.* 1 box of 12 tablets 1/8	1/6	1/2½
" Honey Soap				
" Elder-flower Soap				
" Oatmeal Soap				
" Almond and Glycerine Soap				
" White Rose and Cucumber Soap				
Vinolia Pastilles, per box	1/-	10*d.*	9/2	7/4
Vinolia Shaving Foam, Toilet	1/-	10*d.*	9/2	7/4
" " " "	1/6	1/3	13/9	11/-
" " " Vestal	2/6	2/2	22/10	18/3
Vinolia Brilliantine—				
For the Hair	1/-, 2/-, 3/6	9*d.*, 1/6, 2/7	8/-, 16/-, 28/-	6/5, 12/10, 22/5
For the Moustache	1/-, 2/-, 3/6	9*d.*, 1/6, 2/7	8/-, 16/-, 28/-	6/5, 12/10, 22/5
Vinolia Eau de Cologne— ...				
No. 1. 2-oz. small bottles	1/6	10½*d.*	9/6	7/7
No. 2. 4-oz. large "	2/6	1/7½	17/3	13/10
No. 3. Small wicker "	3/6	2/5½	27/3	21/10
No. 4. Medium " "	6/6	4/10	55/-	44/
Lypsyl (in flat Metal Cases, without the octagonal outers)	6*d.*	—	4/-	2/- net (Extra special price. Note the great reduction on this line)
Blondeau Perfumes—				
Vinolia Bouquet / Ess. Bouquet				
Jequilla / Jockey Club				
Marequil / Millefleur				
Losaria / Maréchal Niel	1/3	11½*d.*	10/-	8/-
White Heliotrope / White Lilac	1/9	1/4	14/-	11/2
White Rose / Musk	3/-	2/3½	24/-	19/2
Opoponax / Ambergris	5/-	3/9½	40/-	32/-
Stephanotis / Amaryllis	9/-	6/10	72/-	57/7
Ylang-Ylang / Jasmine				
Frangipanni / New Mown Hay				
Wood Violet / Honeysuckle				
Lily of the Valley / Musk Rose				
Miniature Samples—				
Vinolia Soap (Otto Toilet)	1½*d.*	—	1/-	10*d.*
" (Balsamic Medical)	1½*d.*	—	1/-	10*d.*
" (Premier)	2*d.*	—	18/4 gross	14/8 gross
Vinolia Powder	3*d.*	—	2/- doz.	1/7 doz.
Vinolia Perfumes	3*d.*	—	2/- doz.	1/7 doz.
Vinolia Eau de Cologne ... ... (Exception)	3*d.*	—	22/6 gross	20/3 gross
Vinolia Lavender Water... ... ... (Exception)	3*d.*	—	22/6 gross	20/3 gross
White Leatherette Perfume Cases, containing two 1/3 bottles Vinolia perfumes	4/-	—	26/- doz.	22/- doz.

FOR TERMS OF "VINOLIA" SPECIAL OFFER, see page 5.

CRESCENT TRADE BM&Co MARK BRAND.

BICARBONATE OF SODA,

REFINED AND RECRYSTALLIZED.

PURE AND CHEAP.

ANALYSIS.

Bicarbonate of Soda	97·20
Mono Carbonate of Soda	1·90
Sulphate of Soda	trace
Chloride of Sodium	·035
Moisture	·82
Insoluble	nil

PURE ALKALI,

GUARANTEED 58 DEGREES.

EQUAL TO 98 PER CENT. OF CARBONATE OF SODA.

Most economical form of Soda for the use of Printers, Bleachers, Dyers; Glass, Paper, and Soap Makers.

CONCENTRATED CRYSTAL SODA

(Sesqui-Carbonate).

By far the Purest and Cheapest form of Washing Soda.

Only 1 lb. of Concentrated Crystal Soda required to do the work of 2 lbs. of Washing Soda.

SODA CRYSTALS

OF THE FINEST QUALITY.

Also BLEACHING POWDER.

BRUNNER, MOND & CO., LIM.

Manufacturers of Soda by the Ammonia Process,

NORTHWICH, CHESHIRE.

JOHN RICHARDSON & CO., LEICESTER, LTD.

beg to announce that they have erected at great expense a complete plant of the newest and most elaborate machinery for the purposes of

CRUSHING & GRINDING

every description of drugs, &c., and will be happy to give very advantageous terms for this class of work upon application.

JOHN RICHARDSON & CO., LEICESTER, LTD.

ACETANILID

THE

CLAYTON ANILINE CO.

LIMITED,

Clayton, MANCHESTER,

ARE NOW

Manufacturing this of Finest Quality,

AND WILL BE GLAD OF INQUIRIES.

WHOLESALE ONLY.

APPLY TO

HEADQUARTERS,

AND

SAVE 20 PER CENT.

VANILLA BEANS a Speciality.

BOURBON BEANS, Straight, also Dressed after the Mexican style.

PRICES AND SPECIFICATIONS ON INQUIRY FROM

HENRI LYON,

41 AVENUE DE L'OPERA,

PARIS.

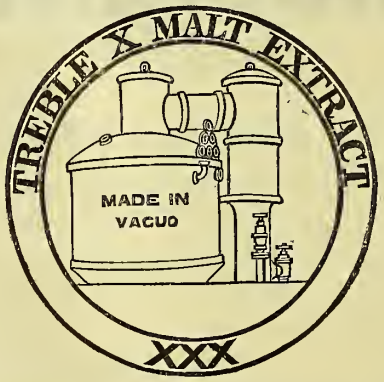
Dr. Lynn's Fig Remedy.

Small Size now ready, price 1/1½.

We invite the attention of Chemists to this high-class Proprietary Medicine, which is now being well advertised, and will be found to command a ready sale. The Wrapper enclosing Dr. Lynn's Fig Remedy is printed in 5 colours, and has a very handsome and attractive appearance, well adapted for display in shop window or show-case. Supplies can be obtained through any of the usual Wholesale Houses, or direct from the Proprietors. Fuller information on application; correspondence invited. Price 2/6 and 1/1½.

J. H. LYNN & CO.

28a FARRINGDON STREET, LONDON, E.C.



A nutritious Diastatic Extract from the finest English malt.

UNEQUALLED IN DIASTATIC STRENGTH.

SOLE AGENTS—

R. MORRISON & Co.

2 Fen Court, Fenchurch Street,

LONDON, E.C.

GRANULAR EFFERVESCENT

OUR OWN MANUFACTURE.

CITRATE OF MAGNESIA.

In consequence of the very low price of all the materials at the present time we have considerably reduced our prices for this preparation, and strongly urge our friends to book contracts without delay for delivery within the following six months.

We guarantee each kind to be in every respect equal to our manufacture of last year, which we are assured gave the utmost satisfaction to all our friends.

"A" QUALITY. Very Superior ..... 1 cwt., 80/-; 5 cwt., 77/6; 10 cwt., 75/- per cwt.

In round bottles, corked and capsuled ...	¼-lb.	½-lb.	1-lb.
Per dozen ...	4/6	7/9	14/-
Per gross ...	50/-	90/-	150/-

"B" QUALITY. Superior ..... 1 cwt., 65/-; 5 cwt., 62/-; 10 cwt., 60/- per cwt.

In bottles as above ...	¼-lb.	½-lb.	1-lb.
Per dozen ...	4/3	6/3	11/6
Per gross ...	48/-	72/-	130/-

"C" QUALITY. Very Good ..... 1 cwt., 60/-; 5 cwt., 58/-; 10 cwt., 56/- per cwt.

In bottles as above ...	¼-lb.	½-lb.	1-lb.
Per dozen ...	4/-	6/-	10/-
Per gross ...	45/-	69/-	112/-

"D" QUALITY. Good, Saleable ..... 1 cwt., 56/-; 5 cwt., 54/-; 10 cwt., 52/- per cwt.

In bottles as above ...	¼-lb.	½-lb.	1-lb.
Per dozen ...	3/9	5/9	9/-
Per gross ...	40/-	64/-	102/-

SAMPLES ON APPLICATION.

	A	B	C	D
6-oz. Blue Flats, lettered, wood-top corks, per gross.....	48/-	42/-	38/-	36/-
8-oz. " " " "	52/-	46/-	42/-	40/-

Patent Stoppers, 1/- per gross extra.

DISCOUNT FOR CASH WITH ORDER, 5 PER CENT.

"Messrs. T. Howard Lloyd & Co. have submitted to us two qualities of Citrate of Magnesia; both of these consist of large, uniform, well-made granules, which are perfectly white and free from dust and small particles. When added to water both qualities evolve a large volume of Carbonic Acid Gas with a copious and well-sustained effervescence. After this has passed off the solution is perfectly bright, clear, and free from suspended matter."—*British and Colonial Druggist.*

"We have received from Messrs. T. Howard Lloyd & Co. a selection of Granular Effervescing preparations, which show that they are maintaining their standard in this branch, the granules being uniform and well made."—*Chemist and Druggist.*

DR. LALOR'S

PHOSPHODYNE

For THIRTY YEARS has maintained its world-wide reputation as

THE ONLY SAFE RELIABLE PHOSPHORIC CURE for Brain Wreckage, Paralysis, Sleeplessness, Harassing Dreams, and all Functional and Diseased Conditions of the System dependent upon the Deficiency of the Vital Forces.

DR. LALOR'S PHOSPHODYNE

HAS THE LARGEST SALE OF ANY PHOSPHORIC MEDICINE IN THE WORLD.

The only Medicine of the kind or name awarded a Certificate of Merit at the Calcutta Exhibition, 1883-4.

TRADE MARK—"PHOSPHODYNE."

THOUSANDS of unimpeachable Testimonials from all parts of the World. No other Phosphoric Preparation has received such exalted praise and distinguished recognition.

To be obtained in Bottles at 4*s.* 6*d.* from all Chemists, &c., &c.

MANUFACTURED ONLY AT

DR. LALOR'S PHOSPHODYNE LABORATORY, HAMPSTEAD, LONDON, N.W.

CHEMISTS enclosing Trade Card will be supplied free with a neat Showcard and Bills for Counter.

We beg to call the attention of the Trade to the following sample parcels of

COOPER'S CONCENTRATED LIQUORS.

Thus enabling Pharmacists to test the quality of our Manufacture without stocking any quantity.

Forwarded on receipt of P.O. or Cheque, CARRIAGE PAID, to any Railway Station in Great Britain or Ireland, BOTTLES and PACKAGES FREE.

No. 1.

4 fld. ozs.	of Liq.	Ferri Iodidi	sufficient to make	32 fld. ozs.	of Syrup.
4 "	"	" Phosph.	" "	32 "	"
4 "	"	Quiniæ et Strych. / Phosph.	" "	32 "	"
16 "	"	Parrish	" "	64 "	"

No. 2.

4 fld. ozs.	of Liq.	Ferri Iodidi	sufficient to make	32 fld. ozs.	of Syrup.
4 "	"	Eastoni	" "	16 "	"
4 "	"	Hypophosph. Co. / c Quinia et Strych.	" "	32 "	"
16 "	"	Parrish	" "	64 "	"

Either for 12/-. Double above quantities, 22/-; and Quadrupled, 40/-.

No. 3.

4 fld. ozs.	of Liq.	Papaveris	sufficient to make	32 fld. ozs.	of Syrup.
4 "	"	Pruni Virg.	" "	32 "	"
4 "	"	Rhamni	" "	32 "	"
4 "	"	Rhei	" "	32 "	"
4 "	"	Rhœados	" "	32 "	"
4 "	"	Scillæ	" "	32 "	"
4 "	"	Sennæ	" "	32 "	"
4 "	"	Tolutanus	" "	32 "	"

Any of the above may be replaced by either Liquor Limonis, Syrup Ferri et Quiniæ Hydrobrom. or Syrup Ferri et Quiniæ Hydrobrom. c. Strychnia.

For 9/-. Double above quantities, 16/6; and Quadrupled, 30/-. No. 3, with either No. 1 or No. 2, for 20/. Double quantities, 37/-; and Quadrupled, 70/-.

Single Bottles of our Specialities can be obtained through any Wholesale House, or direct from the SOLE MANUFACTURERS—

COOPER & CO., 2 New North Road, **LONDON, N.**

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ATKINSON & BARKER'S ROYAL INFANTS' PRESERVATIVE.

Established by 100 years' experience as a safe and effective Medicine.

WHOLESALE AND EXPORT ORDERS SUPPLIED FROM THE MANUFACTORY—

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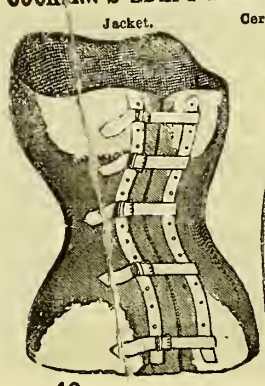
SHOW CARDS AND BILLS ON APPLICATION.

COCKING'S ADAPTABLE PORO-PLASTIC JACKETS AND SPLINTS.

Patentee and Sole Manufacturer, **J. T. COCKING, PLYMOUTH**

Jacket.



Cervical Jacket No. 1.

Cervical Jacket, No. 8.

JACKET

(In cases of slight deformity.)

INSTRUCTIONS FOR MEASUREMENT.

Circumference at axilla.
" waist.
" hips.
Length from axilla to great trochanter.

In severe angular cases, circumference over apex of curve, position of ditto, and contour should be given; in lateral cases a description of the case.

In all cases it must be stated if for male or female.

CERVICAL JACKETS.

Same measurements required, and circumference at neck, and length from neck to axilla

Any part of the Jacket can in the process of manufacture be left soft.

ANTERIOR AND POSTERIOR ELBOW.

FULL LIST OF SPLINTS AND PORO-PLASTIC IN SHEETS MAY BE HAD ON APPLICATION.

THOMAS TYRER & CO.

MANUFACTURING AND OPERATIVE CHEMISTS,

Stirling Chemical Works, Stratford, London, E.,

"STERLING BRAND"

BISMUTH, MERCURIALS, & SCALE PREPARATIONS.

ESSENCES, ETHERS, SPIRITS (IN BOND).

PLEASE NOTE CHANGE OF ADDRESS.

MACKEY, MACKEY & CO.

175 GRANGE ROAD, BERMONDSEY, S.E.

WHOLESALE DRUGGISTS, MANUFACTURING CHEMISTS.

MEDALS—Cape Town, 1877; Brighton, 1881; Cork, 1883; Dublin, 1884; International Inventions Exhibition, 1885.
GOLD MEDAL—International Health Exhibition, 1884.

Makers of Soluble Gelatine-, Pearl-, and Sugar-coated Pills, Tabellæ, Hypodermic Injections, Pessaries, Suppositories, Bougies, Pastils, Fluid Extracts, Oleates of the Metals.

SPECIALTIES—Mistura Bismuthi Co. (Tonic Digestive); Mistura Cerii Co. (and all Preparations of Cerium); Glycerol Pepsine et Euonymin (Digestive Cholagogue); Glycerol Podophylli (Cathartic); Mistura Cascaræ Sagradæ Co. (Tonic Laxative)
OL. EUCALYPTI, P.B.

DRUGS AND CHEMICALS OF BEST QUALITY.

NEW REMEDIES & SPECIAL PHARMACEUTICAL PREPARATIONS, VETERINARY DRUGS & CHEMICALS.

Price Lists and Samples on Application.

SYMES & CO. LIVERPOOL Ltd.

MANUFACTURING PHARMACEUTICAL CHEMISTS EXPORT DRUG MERCHANTS,

IMPORTERS OF BRAZILIAN DRUGS, AMERICAN AND CONTINENTAL SPECIALITIES

ORIGINATORS AND

OL. LAVAND. RECT.

Largely replacing the Mitcham Oil, 21/ lb.

Hydrobromic Syrup of Hypophosphites.

LAC BISMUTHI.

MANUFACTURERS OF

OL. LIMONIS RECT.

Fine quality, keeps well. 6/6 lb.

Lac Bismuthi et Cerii, &c.

DUNCAN, FLOCKHART & CO.,

WHOLESALE AND EXPORT DRUGGISTS, EDINBURGH.

CHLOROFORM

(DUNCAN'S),

Prepared from Pure and Methylated Spirit, also Chloroform (blue label).

Put up in all sizes of bottles. A strap with Name and Trade Mark of the Firm is placed over the stopper of each bottle. For Export, in bottles corked and luted (stoppers attached), and in hermetically sealed flasks when required.

N.B.—We guarantee all our Chloroforms to be PURE CHLOROFORM, *answering all the tests of the British Pharmacopœia.*

CHLORIC ETHER

(DUNCAN'S).

This is a special preparation, quite different from Spir. Chloroformi P.B., perfectly miscible with water, and always of the same strength.

TO THE MEDICAL PROFESSION AND CHEMISTS.

Owing to misapprehensions as to the amount of morphine used in the preparation of

Mrs. WINSLOW'S SOOTHING SYRUP,

we wish to state that the amount is one-eighth (1/8) of one grain to a fluid ounce. As there are eight teaspoonfuls to an ounce, the amount of morphine in a teaspoonful, our maximum dose, is one sixty-fourth (1/64) of a grain.

It will be seen that this is very much less than the quantity used in similar preparations authorised by the Pharmacopœia.

The Anglo-American Drug Company (Lim.),

W. RENAUD, Managing Director.

33 Farringdon Road, London.

FOREIGN SPECIALITIES & MEDICINES.

REVISED PRICE LIST.

ROBERTS & CO.

FOREIGN AND ENGLISH CHEMISTS,

WHOLESALE, IMPORT, AND EXPORT AGENTS FOR

FOREIGN MEDICINES AND PATENTS,

76 NEW BOND STREET, LONDON.

Messrs. Roberts & Co. beg to inform the Trade that they are Agents for all the principal French and Foreign Specialities and Medicines, a large supply of which they have always on hand, and can supply on very favourable terms. They are in daily communication with their Paris House, and can offer exceptional facilities for procuring New Medicines, &c., &c., with very little delay. The following is a list of a few that they name *au hazard*, and that have a large sale:—

Retail	Per doz.
4/6..Alcool de Menthe Ricqles	41/6
2/9.. Ditto ditto	21/
2/9..Aubergier's Syrup	27/
1/9.. „ Pâté	15/
6/6..Bay Rum	57/
3/6.. Ditto	31/
2/ ..Belloc's Charcoal	15/
1/9.. „ Lozenges	15/
4/6..Blancard's Pills	32/
2/6.. Ditto	18/
4/6..Bron's Injection	27/
4/6..Bngeaud's Wine	36/
3/6..Bully's Vinegar	30/
2/ .. Ditto	14/6
4/6..Candé's (Lait Antéphiliq.)	36/
4/6..Capsules Bromide Camph.	45/

Retail	Per doz.
4/6..Capsules Matico	35/
4/6.. „ Mathey Caylus	35/
4/6..Chassaing's Wine	39/
2/9.. „ Pills	24/
4/6..Clin's Dragées Bromide Cam.	45/
5/ ..Eau de Botot (Genuine)	40/
3/ .. Ditto	24/
2/ ..Espic's Cigarettes	13/6
4/6..Elixir de Coca (Mariani)	48/
2/9..Flon's Syrup	23/
..Gayetty's Paper	
2/3..Granules Arsen. Acid	13/6
2/9.. „ „ Iron	14/5
2/9.. „ „ Soda	15/4
2/9..Grimault's Syrup Lime	24/

Retail	Per doz.
2/3..Guyot's Liq. Goudron	18/
9/ ..Laville's Gout Tincture	81/
9/ .. „ „ Pills	78/
1/1½ Papier Fayard	6/9
2/3.. Ditto	13/6
2/3..Papier Fruneau	14/6
4/ .. Ditto	24/6
1/9..Pâté d'Aubergier	15/
1/9.. „ de Berthé	15/6
2/9.. „ de Coca Mariani	25/
1/9.. „ de Georgé	14/6
1/1½ „ Ditto	9/
1/6.. „ de Nafé	13/6
1/9.. „ Regnauld	14/6
7/ ..Pierlot's Valerian	60/

Retail	Per doz.
2/9..Rabuteau's Dragées Ferrug.	24/6
7/ .. „ Elixir Ferrug.	65/
2/9.. „ Syrup Ferrug.	24/6
4/ ..Racahout des Arabes	31/
4/6..Reynal's Bougies	38/
2/9..Ricord's Injection	24/
4/6.. „ Capsules	36/
9/ .. „ Syrup .. 90/; 4/6,	42/
1/6..Star Paper	11/
1/9..Vallet's Pills	14/8
2/9.. Ditto	23/
4/6..Velontine (Whte, Pnk, Oim.)	28/
3/6.. Ditto ditto	22/
2/9..Vichot's Trochisques	22/
4/6..Vin Mariani	36/

SOLE EUROPEAN AGENTS FOR BATTLE & CO.'S BROMIDIA AND IODIA, AND BLOUNT'S OIL OF TAR AND TEREMORRHU.

MM. Roberts & Cie. ont l'honneur d'informer MM. les Pharmaciens Spécialistes de France et de l'Etranger qu'ils se mettent à leur disposition pour des dépôts qu'ils voudraient établir à Londres. On peut avoir tous renseignements en s'adressant à leur maison de Londres ou à Paris.

Agents for MARIANI'S PREPARATIONS OF COCA and LE GRAND'S ORIZA PERFUMERY.

Established] House in Paris: ROBERTS & CO., Rue de la Paix 5. [1823

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LEO & CO.'S COMPRESSED DRUGS

Maintain their high reputation against all comers for general excellence of quality and finish.

SPECIAL LINES.

	1 lb.	7 lbs.
CHLORATE OF POTASH	1/-	/11
CHLORATE OF POTASH AND BORAX	1/-	/11
COMPOUND SULPHUR	1/-	/11
SODA BICARB.	1/-	/11
SODA MINT	1/-	/11

NET CASH WITH ORDER. [1]

A FULL ASSORTMENT OF COMPRESSED GOODS KEPT. PRICES ON APPLICATION.

16 CREECHURCH LANE, LONDON, E.C.

OTTO S. JERVELL & CO., AALESUND, NORWAY,

MANUFACTURERS OF FINEST

NON-FREEZING LOFOTEN COD-LIVER OIL.

Sole Agents—LINTON, HUBBARD & CO., 27 Leadenhall Street, LONDON, E.C.

THYROID EXTRACT

(FOR MYXŒDEMA).

A Glycerine Extract of fresh Thyroid Glands, uniform in strength. Prepared from healthy glands, selected under veterinary supervision. A permanent preparation not liable to decomposition. Well suited for internal administration. A certain remedy for the hitherto inevitably fatal Myxœdema. Useful in Goitre, Cretinism, &c. Found very successful in the treatment of Psoriasis (see Brit. Med. Journal, October 28, 1893, page 933). Exerts a wonderful effect on the nutrition of the skin, and hence deserves wide trial in skin-diseases. Promotes the growth of the hair, and may prove of use in baldness of some kinds.

Price 3s., in 1-oz. stoppered bottles. *Dose*—♏x. *to* ʒj.

THYROIDINE, containing the active principle of the Thyroid Glands of the sheep, 4 grains equal to about one-eighth of a fresh gland. Also PILLS and TABLETS, each containing a dose of Thyroidine.

In bottles, 2s. 6d. each.

Willows, Francis & Butler, Wholesale & Manufacturing Chemists & Export Druggists, **101 High Holborn, London.**

ESTABLISHED 1751.

Dosimetric Medicaments

PREPARED WITH THE ALKALOIDS AND THE PUREST CHEMICALS

IN THE MANUFACTORY OF

CH. CHANTEAUD, CHEMIST, PARIS

(Founder of the Dosimetric System).

GRANULES.

Containing One-tenth of a Milligramme of Active Substance.
In Boxes of Ten Tubes of Twenty-Granules each.

	Price of the Box. s. d.
Strophantine	3 0

GRANULES.

Containing One-fourth of a Milligramme.

Atropine	3 0
Daturine	3 6
Hyoscyamine	3 6

GRANULES.

Containing Half a Milligramme of Active Substance.

Aconitine	3 0
Arseniate of Strychnine	2 6
Brucine	2 6
Cicutine	2 6
Cocaine	3 0
Colchicine	3 0
Colocynthine	3 0
Gelsemine	2 6
Hypophosphite of Strychnine	2 6
Lobeline	2 6
Picrotoxine	3 6
Sulphate of Atropine	3 0
,, Calabarine	4 0
,, Strychnine	2 6
Valerianate of Atropine	3 0
Veratrine	2 6

GRANULES.

Containing One Milligramme.

Agaricine	2 6
Anemonine	2 6
Apomorphine	3 6
Arbutine	2 6
Arseniate of Cafeine	2 6

	Price of the Box. s. d.
Arseniate of Iron	2 0
,, Quinine	2 6
,, Soda	2 0
Arsenious Acid	2 0
Asparagine	2 6
Benzoic Acid	2 0
Bromhydrate of Cicutine	3 0
,, Morphine	3 0
Bryonine	3 0
Cafeine	2 6
Calomel	2 0
Citrate of Cafeine	2 6
Codeine	3 0
Cotoine	2 6
Cubebine	2 6
Cyanide of Zinc	2 0
Cyclamine	2 6
Digitaline	3 0
Elaterine	3 6
Emetine	3 6
Euonymine	2 6
Gregory Salt	2 6
Guaranine	2 6
Hydrastine	2 6
Hydrochlorate of Cocaine	2 6
Hydroferrocyanate of Quinine	3 0
Hydriodate of Morphine	3 0
Iodoform	3 0
Iridine	2 6
Jalapine	2 6
Juglandine	2 6
Kousseine	2 6
Leptandrine	2 6
Narceine	3 6
Nitrate of Pilocarpine	4 0
Phosphide of Zinc	2 0

	Price of the Box. s. d.
Piperine	2 6
Quassine	2 6
Scillitine	2 6
Tannate of Cannabine	2 6
,, Pelletierine	3 0
Valerianate of Cafeine	2 6

GRANULES.

Containing One Centigramme.

Acid Salicylic	2 0
,, Tannic	2 0
Benzoate of Ammonia	2 0
,, Lithia	3 0
,, Soda	2 0
Bromhydrate of Quinine	3 0
Camphor Monobromide	3 0
Carbonate of Lithia	2 6
Croton Chloral	3 0
Diastase	4 0
Emetic	2 6
Ergotine	3 0
Helenine	3 0
Hypophosphite of Lime	2 0
Kermes Mineral	2 0
Lactate of Iron	2 0
Pepsine	2 6
Phosphate of Iron	2 0
Podophyllin	2 6
Protoiodide of Mercury	2 6
Salicylate of Quinine	3 0
,, Soda	2 0
Santonine	3 0
Sub-Nitrate of Bismuth	2 0
Sulphate of Quinine	3 0
,, Sparteine	3 6
Sulphide of Calcium	2 0
Valerianate of Iron	2 0
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CONFORMS TO ALL REQUIREMENTS OF B.P.

AND PRONOUNCED BY THE MEDICAL PROFESSION TO BE UNSURPASSED.

Extract from Analytical Report of Dr. S. Rideal, F.C.S., F.I.C., F.G.S., Jan. 3rd, 1895.

"Practically free from any taste, and no traces of any free acid, * * * are high-class Petroleum Jellies."

SNOWDON, SONS & CO., MILWALL, LONDON, E.

GOLD MEDAL
JAMAICA EXHIBITION.

PURE AND PERFECT ARTICLE FOR
Teeth, Gums, and Breath.

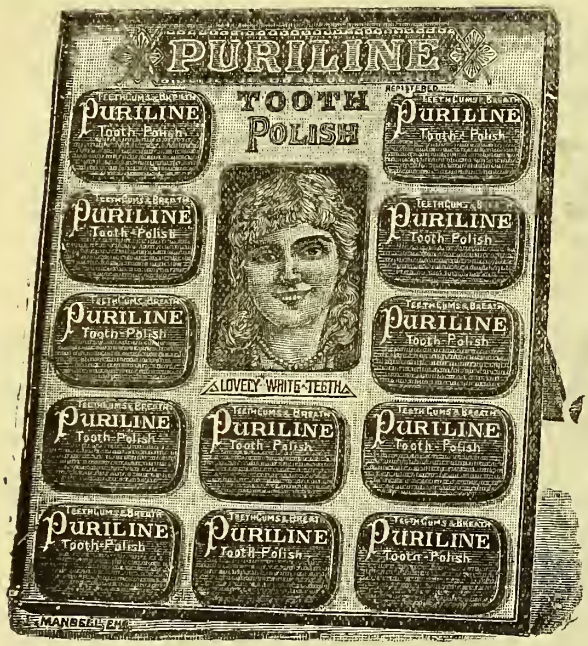
PURILINE
REGISTERED
TOOTH-POLISH

Will purify and beautify the Teeth with a pearly whiteness, polish the enamel; prevent tartar; destroy all living germs and keep the mouth in a delicious condition of comfort, health, purity, and fragrance. Non-gritty, and absolutely pure and harmless to use. Price One Shilling, in handsome Enamel Box.

The POPULAR DENTIFRICE, which Sells at Sight

Handsomely put up in Show-cases, as here shown. Printed in Twelve Colours. An ornament to any window.

Price 7/6 per dozen, of all Wholesale Houses.



The Court Circular says:—"'Puriline' emanates from the laboratory of 'Bunter's Nervine' fame. Bunter's previous preparations for the teeth have received such high encomiums from medical men that it is not surprising that this latest production should have received the recognition and approval of those best qualified to pronounce on its merits."

H. M. Stanley, D.C.L., LL.D., the great African explorer says:—"I use 'Puriline Tooth Polish and Wash'; am much pleased with both."

The Countess of Rosslyn writes:—"Have been recommended to use your Dentifrice, called 'Puriline.' It is extremely nice; please send me six more."

Show-cards and Handbills supplied by

A. WILSON, 422 Clapham Road, LONDON, S.W.

Proprietor of "Bunter's Nervine," "Dentine," and "Puriline."

56

H. P. TRUEFITT'S
SPECIALITIES FOR THE HAIR.

Floral Extract, 3/6, 5/-, 10/6, 21/-
Egg Julep, 2/-, 4/-
CONCENTRATED Egg Julep, 2/6, 5/-, 10/6.
Golden Fluid, 10/6, 21/-
LUXURON, 2/6.
&c.

EUCHRISMA. Combines in one clear Fluid every valuable Component both of a Hair Grease and Wash. 3/6, 5/-, 10/6, 21/-.

EAU RACINE. For Renewing the original colour of Grey Hair; superior to all other Restorers, being perfectly simple in its Components. Price 6/-.

Stimulating Lotion, 5/-, 10/6.
Astringent and Tonic Lotion, 5/-, 10/6.
Quinine and Arnica Hair Wash, 3/6, 5/-, 10/6, 21/-
Arnica Wash, 3/6, 5/-, 10/6.
&c.

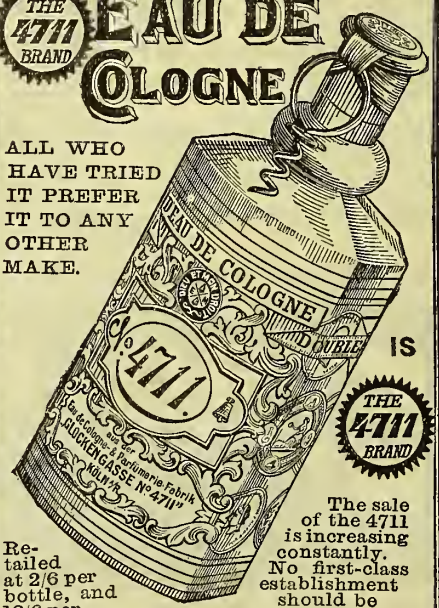
An elegant Preparation for the Hair and Beard. Price 2/6, 3/6, 5/-, 10/6, 21/-.

BRILLANTINE.

H. P. TRUEFITT'S TONIC TOOTH BRUSH
(BY ROYAL LETTERS PATENT.)
PRICE ONE SHILLING.
20 & 21 Burlington Arcade; 13 & 14 Old Bond St., London.

THE BEST GENUINE
THE 4711 BRAND
EAU DE COLOGNE

ALL WHO HAVE TRIED IT PREFER IT TO ANY OTHER MAKE.



IS THE 4711 BRAND

Retailed at 2/6 per bottle, and 12/6 per half-dozen case.

The sale of the 4711 is increasing constantly. No first-class establishment should be without it.

THE 4711 DEPOT, 62, NEW BOND ST. W.

EDWARDS'

WORLD-RENOWNED

HAIR-PRODUCER & RESTORER

THE BEST DRESSING.

SPECIALLY PREPARED AND PERFUMED FOR TOILET USE

WHOLESALE PRICES—

1/- size	-	10/-	per Dozen.
2/6 ,,	-	24/9	,,
4/6 ,,	-	42/9	,,

20 PER CENT. DISCOUNT OFF THESE PRICES ON ORDERS OF £5 AND UPWARDS.

NOBODY GETS MORE

NO MATTER HOW LARGE THE ORDER.

Every order will carry one of our very handsomely framed Show Cards, in 20 colours (size 16 by 24), and 1,000 quarto Counter Bills with seller's Name and Address printed at foot in large type.

THIS PREPARATION SELLS BETTER AND MORE READILY THAN ANY OTHER ON THE MARKET.

All orders taken in rotation. Cheques crossed London and County Bank, New Oxford Street.

EDWARDS' HARLENE CO.

95 HIGH HOLBORN, LONDON.

HEARN'S BOTTLES

ARE THE BEST IN THE MARKET.

BOTTLES, &c., of ANY SHAPE OR COLOUR, at the most Reasonable Prices.

HEARN, WRIGHT & CO. (Late E. A. Hearn & Co.), Wholesale & Export Glass Bottle Manufacturers, Eclipse Glass Works, Chatsworth Road, Clapton, **London, E.**

BOTTLES

OF "HIGH FINISH."

NEW DESIGNS FOR SPECIALITIES.

INSPECTION OF SHOWROOM INVITED.
(15 HIGH-CLASS GLASS WORKS.)

REASONABLE PRICES.

Samples on application.

Warehouse—
East India Dock, E.

JOHNSEN & JÖRGENSEN.

Offices & Showrooms—Botolph House, 10 Eastcheap, London, E.C.

OUR

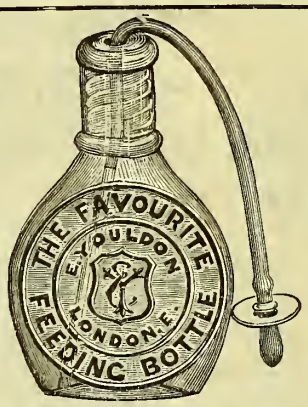
FEEDING BOTTLE

IS

UNDOUBTEDLY

THE FAVOURITE.

A Trial will Prove this.



A sample dozen of these Feeders, White Glass, in strong partitioned wood box, will be sent on receipt of

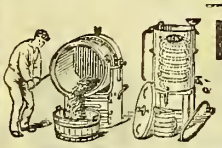
3/2.

Delivered Free in London.

E. YOULDON (Established 1840), **36, 38, & 40 Great Garden Street, LONDON, E.**

IMPROVED STILLS

DISTILLING and RECTIFYING APPARATUS



DEROY FILS AINÉ

MANUFACTURER
75, rue du Théâtre
PARIS

Illustrated CATALOGUE and GUIDE-BOOK for DISTILLERS of Cognac, Rum, Brandies of all kinds, Essential Oils, &a, mailed free.

58

FLETCHER'S

GOVERNMENT CONTRACTORS.

CARBOLIC ACID (pale 97 per cent. or crude) in 5, 10, 20, or 40 gallon lots. Carriage paid. Packages free.

CARBOLIC POWDERS from 5 per cent. to 25 per cent.

DISINFECTING FLUID (soluble), as used by Town and District Councils, Hospitals, &c. Highly recommended by Dr. W. Collingridge and other eminent authorities. Supplied in bottles, tins, drums, and casks.

SHEEP DIPS (fluid, powder, paste). Acknowledged to be the finest ever offered. Packed or in Bulk.

SPECIAL TERMS TO LARGE BUYERS.

English and Foreign Agents Wanted.

FLETCHER BROS. & CO., GRIMSBY.

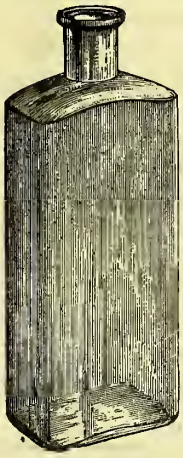
ORIGINAL AND **SUPERIOR** ROUND-CORNERED

DISPENSING BOTTLES

GILBERTSON'S

(No. 118583)

ARE UNEQUALLED IN QUALITY AT PRICES CHARGED.



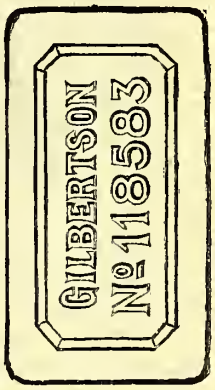
SPECIAL NOTICE.

We particularly ask those friends for whom we have cut NAME PLATES to stipulate when ordering lettered bottles that Gilbertson, No. 118583, is on the bottom of each bottle, as we understand Travellers (other than our own) are offering to utilise our Plates, which is manifestly unfair to us, we having introduced and put on the market at great expense Dispensing Bottles with Rounded Corners now universally in use.

Usual Discount. *Crates Free.* *Carriage Paid.*

11 ST. ANDREW STREET, HOLBORN CIRCUS, LONDON.

Telegraphic Address:—"FRANGIPANI LONDON."



BOTTOM OF BOTTLE.

DISPENSING BOTTLES.

THE NORTH LONDON GLASS BOTTLE COMPANY

(I. ISAACS & CO., Proprietors)

Beg to inform the Trade that they have made a further reduction in the price of their Bottles, as follows:—

The NEW SHAPE FLAT BOTTLES, with rounded edges, plain or graduated—

3 & 4 oz. ..	7/6 per gross.	10 & 12 oz. ..	12/- per gross.
6 „ 8 „ ..	8/6 „	16 „ ..	16/- „

WHITE MOULDED PHIALS, plain or graduated Teaspoons—

½ oz.	3/6 per gross.	1½ oz.	4/6 per gross.
1 „	3/9 „	2 „	5/- „

PLEASE NOTE.

Six gross and upwards, assorted or otherwise, are carriage paid to any address in England; smaller quantities not carriage paid.

I. ISAACS & CO., Glass Bottle Manufacturers,
106 MIDLAND ROAD, ST. PANCRAS, LONDON.

Established 50 years. *Bankers—London and Westminster Bank.*

USE ONLY

CODD'S RINGS & WASHERS

FOR EVERY DESCRIPTION OF

INTERNAL & EXTERNAL STOPPERED BOTTLES

PLAIN OR LETTERED.

MANUFACTURED BY

P. B. COW & CO.

46 and 47 CHEAPSIDE, LONDON, E.C.
Works: STREATHAM COMMON, S.W.

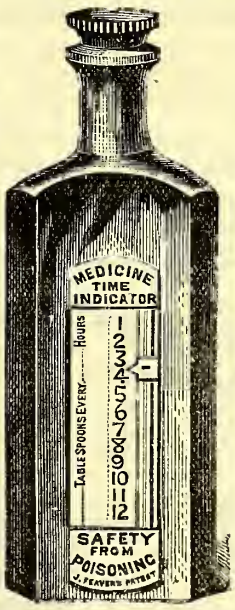
P. B. COW & CO. are the original manufacturers of INDIA-RUBBER RINGS for Patent Stoppers for Aërated Waters, and for many years supplied the late Mr. HIRAM CODD and his Agents exclusively. The quality of their manufactures is acknowledged to be the best in the market.

A GOOD LINE FOR THE TRADE.

MEDICINE TIME INDICATOR

And POISON PREVENTIVE.

This invention is for use on Medicine Bottles, for recording the time of last dose or when the next dose should be given. It also distinguishes medicine bottles from others containing poisons or preparations **not** intended to be taken. It comprises a label or tablet of paper, upon which is printed a series of numbers from 1 to 12 inclusive. A pointer is arranged in connection with the label so that it might be set opposite any of the numbers to indicate the time when a dose was last taken or when it should be next given. The label is gummed to or suspended from the bottle, or it may be placed in any convenient position in the patient's room if medicine for internal use only is being administered. It enables the patient or nurse to readily distinguish the bottle, thus obviating the liability to accidents, and is valuable for family use, by nurses in hospitals, for travellers, or for general use by Doctors and Chemists.



Special Terms to the Trade. Apply to the Patentee

J. FEAVER, 83 Croydon Rd., ANERLEY, S.E.

59

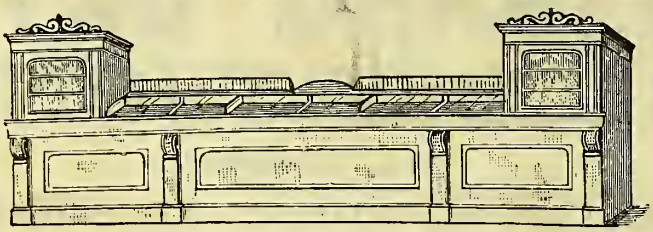
W. S. YATES, CHEMISTS' & GENERAL SHOP FITTER,

SHOP FRONT BUILDER & GLASS SHOWCASE MAKER,

9 CAMDEN STREET, LIVERPOOL.

ESTABLISHED 1864.

PLANS & ESTIMATES supplied for Work in any part of the Kingdom.



ESTABLISHED 1864.

ALTERATIONS and REMOVALS also Estimated for. CATALOGUE.

The following are some of the Chemists' Shops fitted by W. S. Y.:—

DISPENSARY OF THE ROYAL INFIRMARY, Liverpool.
Mr. AGNEW (2 shops), Great Homer St., L'pool.
" WARHURST (4 shops), Stanley Road, Liverpool
" MARTIN (2 shops), Lime Street, Liverpool.
" HALL, Breckfield Road, Liverpool.
" THOMAS, Lark Lane, Liverpool.
" BLACKBURN (2 shops), Tuebrook, Liverpool.
" BUDDEN (6 shops), Dale Street, Liverpool.
" WOODCOCK, Scotland Road, Liverpool.
" FLETCHER, Breck Road, Liverpool.
" PURCELL, Walton Road, Liverpool.
" EVANS, Elam Bank, Liverpool.
Messrs. KNOWLES & WRIGHT, Castle Street, Liverpool.
" SHAW & CO., Seacombe, near Birkenhead.
Mr. CRAWLEY, Rice Lane, Liverpool.
" OALEY (2 shops), Stanley Road, Liverpool.
" ADAMS, Granby Street, Liverpool.
" CLARKE, Warwick Street, Liverpool.
Mr. SYMES, Tithbarn Street, Liverpool.
" JEWELL, London Road, Liverpool.
" BROWN, Stanley Road, Liverpool.
" HUGHES, Mill Street, Liverpool.
" HARRIMAN, Brownlow Hill, Liverpool.
" JOSEPH, Great Homer Street, Liverpool.
" SANT, West Derby Street, Liverpool.
" PARRY, Stanley Road, Liverpool.
" RICHARDSON, Fern Grove, Liverpool.
" JONES, County Road, Liverpool.
Messrs. J. H. & S. JOHNSON, Church Rd., L'pool.
" WALKER & SON, Myrtle St., Liverpool.
Mr. EDWARDS, Litherland.
" WRIGHT, Leek.
" THOMAS, Aberystwyth.
" BOWEN, Criccieth.
" R. PHEYSEY, Waterloo.
" T. MARTIN (2 shops), Waterloo.
" BREWITT, Sandy, Bedfordshire.
" BLABEY, Gateacre, Liverpool.
Mr. EVANS, Millam, Cumberland.
" BAKER, Chester.
" BENNETT, Widnes.
" ROSE, New Brighton.
" CLEMENTS (2 shops), Egremont.
" LEWIS, Rock Ferry.
" COLE, Claughton.
" MARSON (drawers only), Stafford.
" WOODS (cases and drawers), Warrington.
" RIGHTON, Southport.
" A. M. SUDLOW, Southport.
" SUART, Penny Street, Lancaster.
" PREECE, Oxton.
" CHABOT, West Kirby.
" HUGHES, Mold.
" STEAD, St. Ann's-on-Sea.
" DODGESON, Ramsey, Isle of Man.
" COOKE, Barnsley.
THE CHEMIST CO., Wem, Salop.

SECOND-HAND FIXTURES OCCASIONALLY ON HAND. DENTISTS' CASES, &c., &c.

GLASS CASES, UPRIGHT AND BENT, NEW AND SECONDHAND, IN STOCK.

All kinds of Glass Work in Name Plates, Shelves, Outside Letter Slips, &c.

PATENT PARCEL POST BOXES.

A Perfectly Cushioned Box, suitable for any description of

GLASS BOTTLES OR FANCY GOODS.

SPECIAL CUSHION, SILK LINED, for HIGH-CLASS GOODS.

LOOSE OR HINGED LID BOXES OR TUBES.

Set of 6 Hinged-lid Cushioned Boxes for Bottles 4 oz. to 16 oz., 1*s.* 3*d.*, post free.

Special set of 6 for Fancy Goods { Plain, 1*s.* 3*d.*, post free. Fancy, 2*s.* 6*d.* "

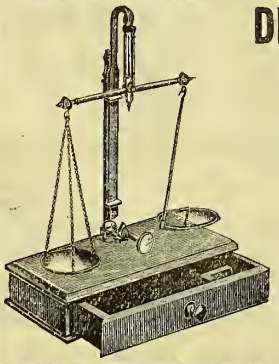
Quotations for quantities, Plain or Printed, per return post.

ORDERS PROMPTLY EXECUTED.

G. C. KIRTLEY, Printer and Box Maker,
3 Elswick Court, NEWCASTLE-ON-TYNE.

SPECIAL IMPROVED

DISPENSING SCALE,



with patent screw lift, brass box end beam, pillar, &c., and 2 glass pans on mahogany box. Stamped in accordance with Board of Trade Regulations.

Beam 8 ins. long; Box 10 ins. long.

Price 27/6 each.

Stamped weights, ½ grain to 2 drams 2/- per set extra.

Discount 10 per cent. for cash against invoice.

See our name is on, as we are the only makers of this Scale.

PETER ROGERS & CO., 48 Green Street, **BIRMINGHAM.**

ESTABLISHED HALF A CENTURY.

GEO. TREBLE & SON,

CHEMISTS' SHOP FITTERS.

PLANS AND ESTIMATES SUPPLIED FREE OF CHARGE.

59 AND 61 RHODES STREET, HOLLOWAY, LONDON, N.

WALKER, TROKE & CO.

WHOLESALE DRUGGISTS

65 Bath Street, City Road,

LONDON, E.C.

SOLE MAKERS OF

GABRIEL & TROKE'S

GELATINE CAPSULED

HORSE BALLS.

Alterative, Condition, Cordial Cough, Diuretic, Fever, Physic, Worm, Quinine Tonic Balls (Registered 81,291).

GELATINE-COATED DOG AND FOWL PILLS. SAMPLES FREE.

THE PATENT

PNEUMATIC

VACCINATION SHIELD.

The Lightest, Safest, and Best Shield ever introduced.

Is an inflated Ring of pure rubber, fitted with suitable fastenings.
Weighs ⅛ oz. complete.

PACKED NEATLY ON CARDS OF ½ DOZ.

PRICES—
6d. and 1s.,
4s. 9d. and 9s. doz.

A Sample Card of each will be sent, post free, on receipt of Postal Order, from

COLE'S PNEUMATIC SHIELD CO.,
LIMITED,
79 Lower Gardiner St., DUBLIN.

When ordering please say whether for Baby or Adult.

SUPPLIES CAN BE OBTAINED FROM MESSRS. EDWARDS & SON, SANGER & SON, OR LYNCH & CO., OF LONDON, AND THROUGH MOST WHOLESALE HOUSES.

SURGICAL LINTS, BANDAGES,

BLEACHED, GREY AND ABSORBENT COTTONS.

SURGEONS' TOWS. **PROTECTIVE LINT**

TELEGRAMS:
"LINT LIVERPOOL."

TRADE MARK.

WORKS:
MARK ST. MILLS, LIVERPOOL.

THE LIVERPOOL LINT CO.

If you Buy Well you can Sell Well.

FOR DRUGGISTS' SUNDRIES, SURGICAL INSTRUMENTS

AND

COUNTER SPECIALITIES,

YOU CANNOT DO BETTER THAN BUY FROM

F. SCHUTZE & CO., 36a Aldersgate Street, LONDON, E.C.

If you have not had a copy of our New Price List, send for one at once; it will pay for its perusal.

61

"THE MOST POWERFUL GERM DESTROYER AT PRESENT KNOWN TO SCIENCE."

IZAL

DISINFECTANT (Non-poisonous).

Now supplied by the chief Wholesale Houses.

Show Cards, Pamphlets, Printed Matter,

And any information the Trade may require, can be obtained on application to

Allen & Hanburys,
Bethnal Green,
LONDON,

Who are the Sole Bottling Agents for the Manufacturers.

ADVERTISING BALLOON CO.

ALTRINCHAM, ENGLAND.

Advertising Balloons, printed with name, trade, and address, from 12/- per gross; each Balloon fitted with the improved long nozzle, so that a child can blow them out. We put name, &c., one side, and any figure the other; also Carboys and Pestles. Advertising Balloon Squeakers with Advertisement, 3/- gross 10-gross lots. As a testimony to the quality of our manufactures, the largest advertising firms in the world have adopted our goods. Makers of all kinds of Pessaries, Skins, Sheet Rubber Surgical Appliances, &c., &c. Special terms for Shipping and the Wholesale.

A. B. Co. (Reg. Trade Mark)

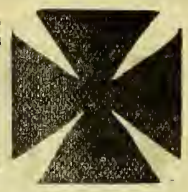
Sample Rooms—9 Newton St., PICCADILLY, MANCHESTER.

A. D. DOUGLAS, Agent,
321 VICTORIA ARCADE, AUCKLAND, NEW ZEALAND
64 QUEEN STREET, MELBOURNE, AUSTRALIA. [1]

CAMPHORTAR

8/- per Gross

CAMPHORTAR



A combination of Camphor, Eucalyptus, and Coal Tar. A Powerful Disinfectant, Deodorizer, Insect Destroyer, and Air Purifier.

CAMPHORTAR

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES.

HEBDEN'S

CHLORIDE OF LIME

IN

AIRTIGHT, ODOURLESS, WATERPROOF PACKETS

Retains the Chlorine and keeps the Powder dry longer than any other packet.

4 oz., 8/- gross; 8 oz., 16/- gross; 16 oz., 30/- gross.

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES.

MANUFACTURED ONLY BY

W. C. HEBDEN, Albany Works, **HALIFAX, YORKSHIRE.**

Largest Manufacturers of

MALT EXTRACT.

HOME. *Bulked or Bottled, Prices on Application.* **EXPORT.**

ANDERSON & CO., WHOLESALE MANUFACTURING CHEMISTS, **12 MURANO PLACE, EDINBURGH**

1 Pint
TO
12 Galls. Water

BARCLAY & SONS,
LIMITED,
95 Farringdon St.,
LONDON, E.C.

SHEEP

(Non-poisonous)

DIP

Per Gallon,
2s. 6d.

40-Gall. Casks,
CARRIAGE PAID,
Per Gallon, 2s.

62

JEYES' FLUID

THE NON-POISONOUS DISINFECTANT.

A TRUE GERMICIDE & DEODORISER,

Somewhat less refined than **CREOLIN**, the virtues of which are

RECOGNISED BY MEDICAL AUTHORITIES ALL OVER THE WORLD.

Jeyes' Fluid and its Preparations

SHOULD BE RECOMMENDED BY THE CHEMIST EVERYWHERE WHO DESIRES TO SUPPLY ONLY RELIABLE ARTICLES.

PRICE LIST

(ABBREVIATED).

Jeyes' Fluid.

Retail Prices s.	d.		Trade Prices s.	d.	
0	6	Sixpenny Bottles (bottles included)	4	0	per doz.
1	0	Shilling " " "	7	0	"
3	6	½-gall. Iron Drums (drums included)	2	6	each
6	0	1-gall. Drums " " "	4	6	"
11	6	2-gall. " " "	8	6	"
28	6	5-gall. " " "	20	0	"
55	0	10-gall. " " "	38	6	"
Per gall.					
5	0	20 & 40 gallon Casks (casks free, not returnable)	3	6	per gall.
1	1½	Universal Perfect Purifier (in bottles)	8	6	per doz.

Sanitary Powder.

1 0	each Canisters, in boxes of 1, 2, or 3 doz.	7 0	per doz.
0 6	" " " " "	4 0	"

(Also in Casks and Bags.)

Disinfectant (Brown) Soap or Household (White) Soap.

No. 1 QUALITY.—In 1-lb. Bars, papered.

In 1-cwt. Boxes .. .. 31 0 per cwt.

(Also in Small Packages.)

No. 2 QUALITY.

In 1-cwt. Boxes .. .. 25 0 per cwt.

(Also in Small Packages.)

In 3-lb. Bars, 2s. per cwt. less.

Triple Milled Toilet Soaps.

Elegant Tablets for the Toilet, of finest quality, containing the Antiseptic Properties of "Jeyes' Fluid."

Retail Prices Per box s.	d.		Trade Prices s.	d.	
1	6	"Perfect Purifier," 6 Tablets	12	0	per doz.
1	6	"Coal Tar," 6 Tablets	12	0	"
2	0	"Old Brown Windsor," 12 square Tablets	18	0	"
0	6	"Special Line," 3 Tablets	4	6	"
2	6	"Toilet" (Scented), 6 Tablets	21	0	"
2	6	"Sublime Toilet" (Unscented), 6 Tablets	21	0	"
2	0	"Boudoir Tablets" (Perfumed), 3 Tablets	16	0	"
5	0	"Transparent Complexion," 12 Tablets	36	0	"
1	0	"Transparent Soap," 3 Tablets	8	0	"
2	0	"Senalia" 4 Tablets	18	0	"

N.B.—The first three varieties supplied also in 7-lb. deal Boxes. Customers' Names stamped on Tablets if sufficient quantity ordered.

Toilet Preparations.

Each s.	d.				
1	0	Shaving Stick, in Cardboard Box	8	0	per doz.
6	0	Tooth Powder, in 1-lb. Bottles	48	0	"
1	0	" " " Metal Box	7	0	"
0	6	Tooth Soap	4	0	"
2	0	Dentifrice Water, in Bottles, with Sprinkler	15	0	"
1	0	Lano-creolin, 5 % Antiseptic, in Tubes	9	0	"
3	0	" " " Large Tubes	24	0	"
6	0	" " " 1-lb. Jars	48	0	"
1	6	Antiseptic Ointment, 10% Antiseptic, in China Pot	12	0	"
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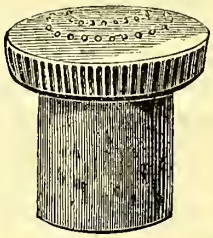

PATENT UNION STOPPER.

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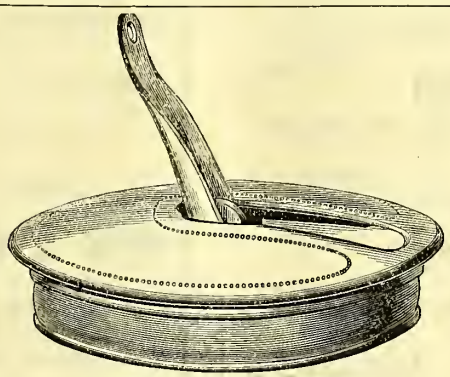

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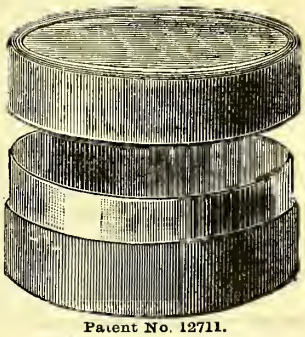
Samples and Prices on application.



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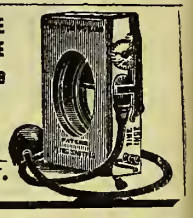

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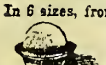
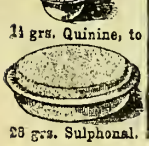

11 grs. Quinine, to

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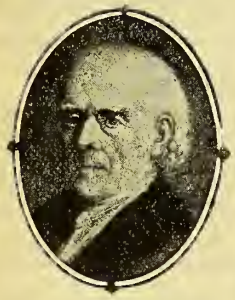

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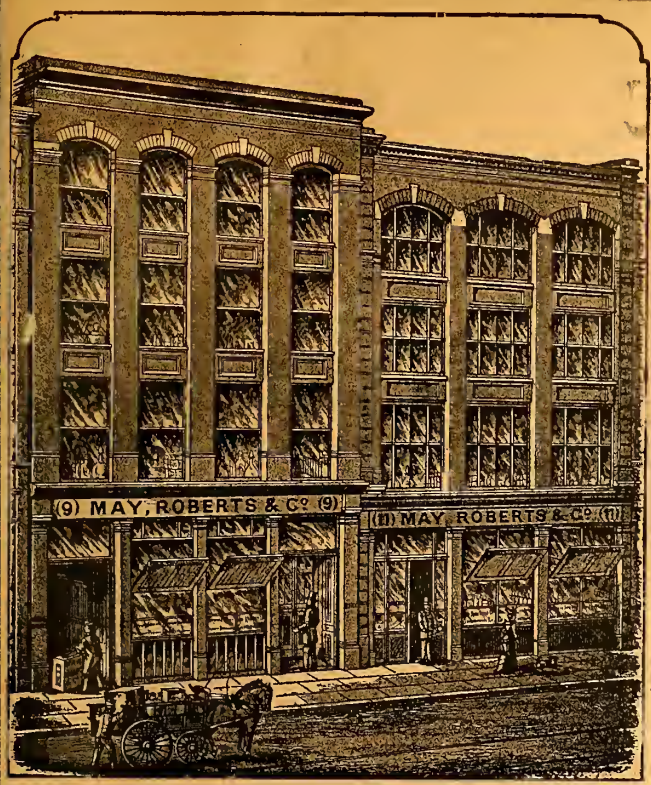

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SATURDAY, APRIL 27, 1895

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11.—**£400.—HAMPSHIRE.**—Retail, Prescribing and Dispensing Business; returns nucleus £400; the business is well situate in a market town; commodious house, with private entrance; about £250 required; part can remain; full particulars on application.

12.—**£1,300.—DEVONSHIRE.**—Very old-established Mixed Business; returns about £1,300 yearly; *good profits*; double-fronted well-fitted shop; convenient house, rent moderate, on lease; terms small; premium for goodwill and stock and fixtures at valuation.

13.—**£900.—GLOUCESTERSHIRE.**—Mixed Business, old-established Dispensing, Retail, and Agricultural trade; returns between £900 and £1,000 yearly; the house is large and convenient; held on lease, at moderate rental; terms, valuation and small premium.

14.—**£900.—YORKS.**—High-class Pharmacy for disposal; old established; position good; returns present rate between £800 and £900 yearly; *profits good*; single-fronted shop, lock-up Pharmacy; price £550; the business is situate in a main thoroughfare, offering scope for considerable expansion.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

Other Businesses, Town and Country. Particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

SPECIAL NOTICE.—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale, suitable for Gentlemen with Small Capital, from £200 to £500.

ORRIDGE & CO., 32 Ludgate Hill, LONDON, E.C.

TO LET.

VARNISH Factory at Mitcham to be Let or Sold. Apply, G. F. Gray, Solicitor, 29 Ludgate Hill.

CORNER Shop to Let, near Haggerstone Bridge, suitable for Chemist or Medical Consulting-rooms; rent low; small premium. Write, 13 Whittlesey Street, S.E.

AN old-established East-end Chemist's Shop to Let; in late proprietor's hands 25 years; death sole cause of leaving; no reasonable offer refused. Apply, 229/34, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

COMMANDING Corner Shop to Let; best business position, and only shop in marketing thoroughfare vacant. Apply, Jasper J. Kelf, Auctioneer, 26 High Street, Walthamstow, near St. James Street Station, G.E.R.

DRUGGISTS.—New shop, Railway Street (old railway-station site), Bowdon, near Manchester; splendid position for Druggists; handsome shop (plate-glass front), electric light. Radcliffe, Solicitors, 1 Victoria Street, Liverpool.

EXCELLENT opening for Chemist and Druggist in suburbs of Reading; 7-roomed house, with double-fronted shop, garden, back entrance; main road. For particulars apply to Owen Phillips, Builder, 27 Highgrove Street, Reading.

IN the busiest thoroughfare S.E. of London, capital Corner Premises, suitable for Dispensing, Drug-stores, &c., comprising large double-fronted shop (about 50 ft. long), two entrances, good living accommodation, kitchen, &c., to be Let or Sold. Apply, Buckland & Sons, Auctioneers, 4 Bloomsbury Square, W.C., and Windsor.

PARTNERSHIPS.

GENTLEMAN, having a flourishing and profitable business returning £2,000, and about to open a branch, is in immediate want of a partner with £1,000 at command. Qualification not absolutely necessary. Answer must contain trade reference, or will not be answered. Address, "Box 6,180," Postal Department, *Daily Telegraph*, Fleet Street, E.C.

APPRENTICESHIPS.

WANTED, an Apprentice, in first-class Retail Business; in or out doors. Apply, Wm. Pick, Newton Grove Pharmacy, Chapeltown Road, Leeds.

VACANCY occurs in a brisk London business for a gentlemanly Youth as Apprentice; comfortable home; time for study and recreation; the last year of apprenticeship he can attend lectures, if desired; moderate premium required; references exchanged. "Borax," Messrs. Deacon's, Leadenhall Street, E.C.

CHEMISTS.—Minister wishes to Apprentice (indoors) son, amiable, well-educated, gentlemanly, to Chemist by examination; Mixed trade objected to; South preferred, but not indispensable; Christian home; premium moderate; term 3 years. To save trouble, send full particulars to "Pater," Wesley Manse, Watlington, Tetsworth, Oxon.

BOARD AND RESIDENCE.

TO STUDENTS.—Board and Lodging in return for Part-time services; suit Improver, or one just out of apprenticeship; easy distance from London. "Eddie," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

F. J. BRETT

Valuer, 60 St. Stephen's Road, LEICESTER.

References to principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS. 20 YEARS' EXPERIENCE. NO CHARGE TO BUYERS.

SOUTH WALES.—£1,000 returns.—Shipping and retail, capable of being doubled; price £300.

LEICESTER.—£800 returns.—Retail, Prescribing, &c., in busy part; price about £700, small premium and valuation.

DERBYSHIRE.—£720 returns.—Retail with Gilbey's Agency; price £400.

DEVONSHIRE.—Branch Retail returning under poor management, £5 week; price £175.

LONDON, S.W.—£1,000 returns.—Dispensing and light retail with good proprietaries; price £800.

BERDOE & CO.

CHEMISTS' TRANSFER AGENTS AND VALUERS

30 JEWRY STREET, ALDGATE, E.C.

Established 1870.

NOTICE TO VENDORS.

Having been for the past 25 years solely engaged in the Sale, Purchase, and Valuation of Chemists' Businesses, we have, as Transfer Agents and Valuers, the largest experience of any in the Trade. Vendors placing their Businesses in our hands for transfer may in all cases rely upon a speedy sale being effected without undue publicity. Terms forwarded post free on application. No sale, no charge.

BUSINESSES WANTED.

1.—**YORKSHIRE.**—Good-class Light Retail, Dispensing, and Prescribing Business; returns £1,400; net profit £400; good house; rent £40; price £1,150, or valuation terms arranged.

2.—**KENT.**—First-class Retail and Dispensing Business; returns £1,300; excellent prices, no cutting; good house, large, handsome shop; price £1,200; personally inspected.

3.—**HOME COUNTY.**—Thirty miles out; Light Retail and Dispensing Business; returns over £800; net profit £350; good house, fine corner shop, handsomely fitted and well stocked; price £750.

4.—**DURHAM COUNTY.**—Death vacancy; Mixed Retail and Prescribing Business; returns £1,200; same hands 35 years; good house; price about £300 by valuation; bargain.

5.—**KENT.**—Near the Sea; Retail and Prescribing Business; returns £650; very profitable; low rent; good house; price only £450; valuation terms arranged.

6.—**WEST OF ENGLAND.**—Light Retail and Prescribing Business, in small country town; returns £400; rent £25; good house, large garden; price £250 or valuation.

7.—**WILTSHIRE.**—Country town; Retail and Prescribing Business; returns £250, can be trebled; much neglected; low rent; good house; price £125; good chance beginner.

VALUATIONS.

SPECIAL ATTENTION is paid to Valuations, which are personally conducted by a member of the firm, in any part of the United Kingdom. Our terms, which are moderate, may be had on application.

Berdoe & Co., 30 Jewry Street, Aldgate, E.C.

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Chemists' Consultants, Investigators, Transfer Agents, and Valuers,

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FORTY-FOUR YEARS' EXPERIENCE.

BUSINESS WANTED.—Thomas Tomlinson & Son, having on their books an extensive list of gentlemen who have entrusted them with commissions to look up a good genuine Business, intending sellers can rely upon being at once with all despatch put into communication with bonâ-fide buyers without publicity and the annoyance of answering "curiosity" applications. **No charge made unless Sale is effected.**

INTENDING PURCHASERS will do well to call at our offices and place their names with us, with particulars as to requirements and capital at command, as, having an extensive list of Businesses for disposal, we are able to judge as to adaptability, and to furnish those only suitable. Applicants unable to see us may have our candid opinion by post, without any charge.

NO CHARGE TO PURCHASERS.

Telegraphic Address—"Tomtom."

JUDD & MANNERS,

(Successors to CROCKER & CO.),

Trade Valuers, Transfer Agents, & Accountants,

76 CANNON ST., LONDON, E.C.

(ADJOINING CANNON STREET STATION).

DERBYSHIRE.—Old-established Retail Business, returning £950 a year, with good old-fashioned house; rent £80; price £800.

LONDON, S.W.—Retail and Dispensing Business, with good house; price £1,000.

HOME COUNTY.—Family and Dispensing Business; returning over £2,000; with good house and garden; price about one year's returns.

LINCOLNSHIRE.—Retail, Dispensing, and Agricultural Business; returning £550; rent £70; price £300.

MIDDLESEX.—Small Retail and Prescribing; returning £350; good house; rent £60; price £215.

LONDON, N.—Prescribing and Dispensing Business; returning £650 a year; rent £70; price £550.

NORTH LONDON.—Cash Retail, Dispensing, and Prescribing trade; returns £850; price £500; double-fronted shop, well fitted, and heavily stocked; fairly good house and garden.

LONDON, S.E.—Light Retail and Dispensing trade; returns over £600 yearly under a manager; price £200; a bargain.

LONDON (West-end).—High-class Dispensing Business, very old-established; returns £1,300, very profitable; price £300 goodwill and valuation; we strongly recommend this as a sound and reliable investment.

BIRMINGHAM.—An old-established Cash Retail and Prescribing trade; returning at full prices £450 a year, under management; price £225.

NEAR LONDON.—Light Retail, Prescribing, and Dispensing Business, with Dentistry; returns £2,000, very profitable; price about one year's returns.

MIDLANDS.—Retail and Dispensing, returning over £500; price £300.

YORKSHIRE.—Cash Retail, Dispensing, and Prescribing trade; returns £1,500; price £1,100, or valuation terms can be arranged.

SURREY.—Light Retail and Prescribing trade; returns £400; price £200; good position in main road.

SURREY.—Owing to serious illness of Proprietor; a most desirable Business; returning £800; price £600; worth much more; prompt action necessary.

VALUATIONS PERSONALLY CONDUCTED.

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The only Transfer Agency conducted by fully qualified Chemists.

Gentlemen wishing to dispose of their Businesses at a nominal charge without publicity, trouble, or inconvenience, should communicate with us at once. We can effect a speedy sale of good Businesses. We have cash purchasers desiring immediate investments in the following localities:—

South or South Midlands, £800 to £1,000; West or South Wales, about £800; South, £1,000 and £400 or £500; London, £700 or £800; South Wales, £500; South-west London, £800; South west, £800 to £1,000; Cheshire, or within 10 or 12 miles of Liverpool, £400 or £450; Chesbire, Shrops, Denbigh, or Flint Market Town or unopposed village, £500 to £800; South, £1,000; Chesbire, country, £500 to £600. Smart business men should write us without delay.

Our Speciality, VALUATIONS, conducted from start to finish by a member of the firm. Our experience extends over 25 years. References to past Clients.

56 CHEAPSIDE, LONDON, E.C.

SITUATIONS OPEN—Cont.

PARISH OF ST. PANCRAS.

DISPENSER required for the St. Pancras Workhouse; salary £110, with dinner daily; candidates must be Licentiates of the Apothecaries' Company of London, or must have passed a Major or Minor examination of the Pharmaceutical Society of Great Britain; age not to exceed 45 years. Applications (to be made on forms to be obtained at this office), accompanied by copies of not more than 4 testimonials of recent date, to be forwarded to me not later than Friday, the 3rd May next.

Selected candidates will be informed when they may attend a meeting of the Guardians, but no travelling or other expenses will be allowed.

By Order,
ALFRED A. MILLWARD, Clerk to the Guardians.
Vestry Hall, Pancras Road, N.W., April 18, 1895.

SITUATIONS WANTED.

1s. for 12 words; 6d. for every 6 words beyond.

PART-TIME; near a college preferred. W., 145 Boughton, Chester.

PART-TIME, in or near London. "Chemicus," 95 Guilford Street, W.C.

JUNIOR; highest references; West of England preferred. P., 2 Rhoda Houses, Deal.

JUNIOR; 4 years' experience; South Coast preferred. B., 114 Church Road, Brighton.

TEMPORARY, Manager or Senior; qualified. "Chemist," 18 Madoc Street, Llandudno.

JUNIOR Assistant; qualified; 22; in or outdoors. Charnley, Holland Street, Blackburn.

JUNIOR; time for study or classes; London reference. Pilcher, 173 Sloane Street, S.W.

ASSISTANT; 23; whole or part time. J. Royle, Yew Tree Cottage, Wilmslow, Cheshire.

LOCUM; good references; disengaged; aged 40. F. G. Shrimpton, Grove Street, Oxford.

PART-TIME; London; disengaged; time for study. Lucas, High Street, Cradley Heath.

JUNIOR; aged 20½; 5 years' good experience; tall. W. Hughes, 6 Castle Street, Northwich.

ASSISTANT; unqualified; disengaged; aged 21½. X. Y. Z., 58 South Street, Sleaford.

TRAVELLER; 27; good references; experienced. M., 93 Stockwell Park Road, Brixton, S.W.

DISENGAGED until September; aged 22. Hall, 136 Eastbourne Road, Birkdale, Southport.

PART-TIME; London; qualified; near a college preferred. "Salol," 254 Stretford Road, Manchester.

IMMEDIATELY; Junior; 9 years' experience; unqualified. Hardy, 186 Forest Side, Sutton-in-Ashfield.

DISPENSER to Surgeon; thoroughly experienced; married. Wood, Mr. Acfield, Pharmacist, Surbiton.

NO SALARY.—Lady as Improver. X. Y. Z., c/o Sub-librarian, Literary Society, Tunbridge Wells.

TRAVELLER, or introduce Proprietaries to Doctors. "Pharmacist," 11 Holmdale Road, West Hampstead.

AGE 23; 5 ft. 7 in.; Store or ordinary Retail; disengaged May 18th. H. S., 411 Southwark Park Road, S.E.

JUNIOR, 20, 4 years' experience, wants situation in or near London. J. B. Howell, c/o Evan Jones, Llanelly.

JUNIOR; 23; 6 years' experience; Extractor; good appearance. Parker, 142 Grove Road, Victoria Park.

IMPROVER; aged 21; height 6 ft.; 5½ years' experience; indoors. Apply, Rawlins, Malvern House, Clevedon.

PART-TIME (evenings); free after 6.30; earlier on Saturdays. R. R., 14 St. Mary's Square, Paddington.

MANAGER, or Locum-tenens; qualified; aged 30; disengaged. H., c/o Knight, Chemist, Fenton, Staffs.

LOCUM, or permanent Branch Manager; qualified; middle-aged; terms moderate. 36 Wrexhamfechan, Wrexham.

LOCUM-TENENS; aged 26; London preferred; West-end and Hospital experience. 156 Green Lanes, N.

ASSISTANT; aged 28; either Dispenser or part-time; 3 years in last situation. B., 11 Eastfield Road, Louth.

ASSISTANT; 28; unqualified; London and country experience. Edward, 8 Union Terrace, Notting Hill, W.

ASSISTANT, qualified; quick and accurate Dispenser; locum or otherwise. "Medicus," 564 Fulham Road, S.W.

WANTED, at once, a situation as Improver; no salary; 2 years' experience in first-class business. Address, "Y 786," at Shelley's, 38 Gracechurch Street, E.C.

ASSISTANT; 23; height 5 ft. 11 in.; 7½ years' London and country experience. A., 2 Palmerston Road, Southsea.

ASSISTANT or Dispenser; qualified; 27; outdoors; best experience and references. W. S., 136 Waterloo Road, S.E.

AS Assistant; temporary or permanent; 34. 228/22, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

AS Manager or Senior; aged 29; qualified. "Minor," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT; 23; qualified; 7 years' experience. J. R., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PART-TIME; situation in West-end; qualified; good experience; indoors preferred. F. Curry, 24 High Street, Dorking.

MANAGER, Dispenser, Prescriber; 37; qualified. "Ulexine," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£2 WEEKLY, indoors, and 3rd return fare. "Locum," 2 Talbot Road, Southsea. Cutters and Stores please not reply.

MANAGER or Senior; 11 years' experience; aged 27; height 5 ft. 8 in.; Minor qualification. C. P., The Manse, Minsterley, Salop.

ASSISTANT; disengaged; all-round experience; 24; qualified; Midlands preferred. "Fauna," Osborne House, Atherstone.

ASSISTANT; Wholesale or Retail; qualified; aged 28; good experience and references. M. S., 15 Draper Street, Newington.

MINOR; disengaged; part-time or permanency; London experience; London preferred. Jones, 55 Gloucester Street, Belgravia.

LOCUM; disengaged; write open dates; excellent references; Minor qualification; moderate terms. Morgan, Chemist, Hereford.

EXPERIENCED gentleman requires appointment; Traveller or Manager; Drugs and Drysalts. 348 High Street, Rochester.

PART-TIME, to study for Minor; 25; 9 years' experience; Manchester or Liverpool preferred. Kipling, 6 Sheep Street, Skipton.

BRANCH; good Prescriber; pushing Counterman; expert at Stock; disengaged; unqualified. "Tact," 60 St. Andrew's, Uxbridge.

MANAGER; indoors; disengaged; qualified; good reference. "Cal.," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MINOR Student, 21, Hall qualification, requires part-time; Edinburgh, London, or Manchester. F., 13 St. George's Square, Sunderland.

SENIOR, Manager; good-class trade; Yorkshire or Midlands; view to purchase or succession. "Chemist," 10 Prince Street, Bridlington Quay.

DISPENSER and Bookkeeper; live on surgery; no salary first month; no family; abstainer. "Dispenser," 21 Trinity Road, Tooting.

PART-TIME or Locum; first-class West-end experience; good references. "Reliance," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PART-TIME situation, near schools, giving four evenings weekly to attend lectures; good experience. Ordish, 1 Royal Parade, Chislehurst.

MANAGER; Major; 36; married; long Store experience; practical Mineral-water manufacturer. "Pharmacist," 11 Holmdale Road, West Hampstead.

MEDICAL.—Gentleman, 40, full curriculum, desires permanent or temporary berth; out or in doors. "Medical," Manor View, Darnall, Sheffield.

JUNIOR (21) offers his services in healthy country town for a few months, in return for board; North preferred. "Statim," 63 Queen's Road, Nottingham.

AS Representative or Manager; aged 39; excellent references and security; Midlands preferred; disengaged. "Nemo," 269 Moseley Road, Birmingham.

TEMPORARY, Manager or Assistant; 26; qualified; best London suburban, and country experience; disengaged. Wilson, Crown Pharmacy, Romford.

JUNIOR (22) wants situation near Bury, Lancashire, at once; good references. "Journal," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR (20½); 5½ years' experience (3½ years country, 2 years Brighton); London or large town preferred. H., 61 Frogmore Street, Abergavenny.

WHOLESALE.—Major wishes entrance to above; Laboratory or as Traveller. "Excelsior," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PART-TIME; qualified; outdoors; good London experience and references. "Medicus," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR, 22, excellent reference, desires situation in good Dispensing business; Manchester or Liverpool preferred. "Exalgin," 96 Bedford Road, Bootle, Liverpool.

MANAGER, temporary or otherwise; disengaged; qualified; good all-round experience; registered Chemist and Dentist; single. W., 53 West Square, S.E.

SITUATIONS OPEN—Cont.

QUALIFIED Assistant wanted; state full particulars as to references, age, wages, &c. W. Proctor, 7 New Bridge Street, Newcastle-on-Tyne.

JUNIOR or Improver wanted; one able to Extract Teeth preferred. Apply, with full particulars, enclosing photo, to Mr. Routly, Susan's Road, Eastbourne.

ASSISTANT, qualified preferred, for brisk trade. Write, with full particulars, to P. & C., c/o Messrs. Wright, Layman & Umney, 50 Southwark Street, S.E.

WINTON'S DRUG CO., 39 George Street, Richmond, require a Temporary Assistant at once; quick cutting trade. Send full particulars to above address.

WANTED, qualified Manager; energetic and good business man; Extractor. Full particulars and photo, salary required, Directors, Drug Stores (Limited), Hednesford.

WANTED, Agent or Traveller on commission, for London, to represent Perfumery House, with good connection. Barnett & Co., 68 Edgbaston Street, Birmingham.

COMPETENT Assistant, capable of being left in sole charge; one able to Extract Teeth preferred; outdoors; personal interview. Rees, Chemist, 98 Gray's Inn Road, W.C.

ASSISTANT wanted, at once, indoors, qualified, with good experience. State age, height, and salary required, Glaisyer, Pharmaceutical Chemist, 53 King's Road, Chelsea, S.W.

A QUALIFIED Assistant, about 23 or 24 (indoors), accustomed to a good-class Dispensing Business. Apply, with full particulars (enclosing photo), to W. H. Webb, Weston-super-Mare.

JUNIOR Assistant; immediately; indoors; short hours; no Sunday duty; good-class country business. State age, references, salary, and send photo (to be returned), to W. Crump, Skipton, Yorks.

IMMEDIATELY; Assistant, accustomed to good country trade; aged about 22. Send particulars of experience, salary required, height, &c., and enclose c.d.v., to Smart, Pharmaceutical Chemist, Steyning.

WANTED, at once, a gentlemanly Assistant, about 22, for a high-class Dispensing business. Apply, giving usual particulars, stating salary and references, to Whiston & Co., St. James's Square, Bath.

LABORATORY.—Wanted, a Laboratory Porter, about 18 or 20; strong and active. C. R. Harker, Stagg & Morgan, Wholesale and Export Druggists, 15 Laurence Pountney Lane, Cannon Street, E.C.

MANAGER for Branch wanted, immediately; qualified and experienced. Apply, with carte, if possible, stating age, salary required (outdoors), and references, to J. H. Morris, 152 Milton Road, Gravesend.

AN Assistant, about 24 years of age, accustomed to good-class Retail and Dispensing business. Apply, with full particulars as to age, height, salary, and references, to Tenison Smith, Top of Union Street, Ryde, I.W.

MANAGER.—Wanted, qualified Chemist to Manage Scotch Drug Store. Apply, stating experience and salary required, enclosing photo, to L. P., c/o Wright, Layman & Umney, Southwark Street, London.

OUTDOORS; qualified Assistant; must be quick and accurate Dispenser, and used to good-class business; short hours, no Sunday duty; permanency to good man. Apply, "Chemist," 8 Leadenhall St., E.C.

WANTED, early in May (outdoors), 2 Assistants for Retail Counter, aged from 22 to 25, both qualified; state usual particulars, enclosing c.d.v. Waller & Riley (Limited), Cash Chemists, Bolton, Lancashire.

WANTED, immediately, an active Junior Assistant; aged about 22; West-end; one accustomed to quick Counter-work and Dispensing. State full particulars to "Caryoph.," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BEWLEY & DRAPER, Dublin, have a vacancy in their Wholesale Drug department for an experienced and really competent Assistant. Apply, giving full particulars as to previous engagements, with copies of testimonials, and stating salary expected.

WANTED, for Birmingham and district, Gentleman to represent a firm of Wholesale Druggists and Patent-medicine Dealers; must have thorough knowledge of the business. Apply, to 36/74, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

C. HANSON, Pharm. Chemist, Cressington, Liverpool, requires immediately a qualified Assistant; must have had a good all-round experience; thoroughly capable of taking entire charge. State fullest particulars, salary required, references, photo, &c.

WANTED, a Manager for a first-class Provincial Scientific Apparatus business; he must have had good experience, also a knowledge of Chemistry and Photography. Address, stating age, experience, and salary required, "Scientific," c/o 163 Queen Victoria Street, London.

INVOICE-CLERK wanted for Cape Town; must have experience of the Wholesale Drug-trade, be quick at figures, and write a good hand; one with general experience of Drugs and Sundries preferred. Address, E. M., c/o John Murdoch & Co., 52 Leadenhall St., London, E.C.

QUALIFIED Assistant required shortly; moderate hours; must be competent and quick; state salary required (outdoors), periods of service in last two or three situations, and usual particulars; permanency, with good prospect of advancement for a suitable Assistant. Apply, in the first instance, to "Litmus," c/o Messrs. Maw, Son & Thompson, Aldersgate Street, E.C.

FIRST-CLASS Country Travellers or Agent, to sell, on commission, Seltzogenes and Syphons for a French manufacturer; goods delivered free any railway station in the United Kingdom. State ground covered and references, Paul Mitton, 25 Coleman Street, E.C.

ASSISTANT required (indoors), about 21; active, gentlemanly, obliging, and used to modern style of business; time for study, if required. Apply personally, if possible, or, if by letter, state full particulars to H. V. Prentice, Crouch Hill Pharmacy, N.

WANTED, an Assistant, qualified, of good address, well up in good-class Dispensing, for a Light Retail business; must be active and willing; liberal salary to competent gentleman able to take charge when required. "Upsilon," c/o Evans, Gadd & Co., Exeter.

JUNIOR Assistant wanted, at once, about 21 (indoors), for Light Retail and Dispensing business; must be quick and obliging. State, in first communication, age, height, reference, experience, and salary required, J. F., 1 Avondale Terrace, Beaumont Road, Plymouth.

WANTED, a good Junior (indoors) for a Country Retail, Prescribing, Dispensing business, &c.; one acquainted with Dentistry preferred; time for study, &c. Apply, with particulars, enclosing photo, salary must be moderate, C. A., c/o Messrs. Evans, Gadd & Co., Exeter.

UNQUALIFIED Assistant wanted, for quick Cash, purely Chemist's trade; state remuneration (outdoors), and full particulars as to age, experience, &c., and enclose photo (to be returned); reasonable hours. "Quinine," c/o Messrs. Wright, Layman & Umney, Southwark Street, S.E.

MAJOR HILL, Chemist, Wisbech, requires, for May 7th, an energetic and reliable Junior Assistant (indoors), about 21, and accustomed to good-class Light Retail and Dispensing business. Applicants please send full particulars as to age, height, experience, and enclose photo (to be returned).

TRAVELLER.—Wanted, by an old-established Provincial Drug House, a capable representative for the North Midlands; one having a connection amongst Chemists in that district preferred. Apply, in the first instance, to "Cortex," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DISPENSER wanted (outdoors); must have been used to a good-class business and qualified, and having some knowledge of Photography a recommendation. Call or address, with full particulars and length of reference, and salary required, to Sangster, opposite Swiss Cottage Station, Hampstead.

WANTED, immediately, Junior, accustomed to an Agricultural and Family trade, and able to Extract Teeth; indoors only; comfortable home. Apply, stating age, height, and salary required, to H. C. Webb, Pharmaceutical Chemist, Buckingham. Please enclose photograph, which shall be returned.

WANTED, Chemist holding Minor qualification of Pharmaceutical Society, acquainted with the local conditions of trade in Northampton, to manage a business there; salary and a share of profits. Apply, with particulars, to 226/16, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, Improver or Turnover Apprentice in small seaside watering place; one who has been 2 or 3 years in the trade; small salary with comfortable home and time for study allowed; must be steady and trustworthy. Address, "Rhei," c/o Messrs. Evans, Sons & Co., Hanover Street, Liverpool.

WANTED, an indoor Assistant, for a Light Retail business; must be an energetic Counterman and accustomed to good-class trade; state age, height, salary required, how long in last situation, also enclose carte (which shall be returned); hours of business moderate. Morgan, Chemist, Southend-on-Sea.

MANAGER (Wholesale).—Wanted, gentleman experienced in introducing new Patent Medicines, and having good connections; full particulars as to previous occupation, &c., indispensable; liberal remuneration to suitable applicant. A. A., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, immediately, outdoors, an Assistant, exclusively for putting up Stock for a Retail business; qualification not necessary; a steady and obliging Assistant accustomed to this kind of work preferred. Apply, stating salary required and all particulars, to R. J. Elliot, Chemist, 69 Church Street, Liverpool.

REPRESENTATIVE wanted to assist in pushing an old-established Specialty (not a nostrum) by calling upon Medical men and Chemists; applications will be treated as confidential, and those who reply should state their experience and salary required. 35/74, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, for a good-class Dispensing business, with light, quick Retail, a qualified Assistant, able to take charge, with thorough experience in Dispensing, must be active, gentlemanly, and good Counterman; give full particulars of experience, state salary required (indoors); comfortable home; easy hours. Stocker, Chemist, Exeter.

AT once, a Junior Assistant for a brisk Cash business; indoors; quick and good at Counter; the usual early evening each week; ½ hour off each morning; half holiday every month; Sunday duty every fourth Sunday. Please give full particulars of experience, age, references, and salary required, to Blackham, 675 Holloway Road, Upper Holloway, N.

SANITARY Inspectorships.—Numerous vacancies; good salaries; permanent posts for reliable men; all wanting appointments as Inspectors or desiring Sanitary Diploma for business purposes should obtain Sanitary Institute (London) Certificate; Postal Course now commencing for London and Provincial Exams., any man of average ability can pass; have had over 100 successes, and fully half had no previous knowledge of sanitary matters. Apply, Robt. H. Mushens, Sanitary Science Teacher, Sunderland.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

WILL accept valuation only for my Business here; well-fitted shop; good position. For particulars, apply, Mr. Pickering, Chemist, St. Helens.

FOR immediate Disposal, an old-established Business with shipping connection; no reasonable offer refused; selling through death of proprietor. 27 High Street, Poplar, London, E.

FOR Sale, a first-class Dispensing and General Chemist's Business, in a large town, and centre position; shop well stocked and fitted; satisfactory reasons for disposal; no agents. Apply, "Ego," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£500 Net.—In healthy suburb of Manchester, a genuine Business; Dispensing and Light Retail only; very remunerative; handsomely-fitted shop and first-class house; rent £42. Apply, "Celeritas," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

THE Business of the late Mr. Thomas Evans, of Burnley, for disposal, at valuation of Stock and Fixtures; returns about £700; double-fronted shop, plate-glass windows; Dispensing, Prescribing, and Light. Apply, Thos. Tomlinson & Son, 9 New Cannon Street, Manchester.

FOR immediate Sale, a nicely-fitted well-stocked Pharmacy, doing a small but very profitable business, in main thoroughfare near London; rent £25; good house; price £150; good reasons for disposal. "Mixed," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CHEMIST'S and Druggist's; London; corner shop; main road; old-established Prescribing and Proprietaries, few Patents; doing £400, can be largely increased; £250. Principals or their Solicitors, by letter to "Chemist," J. S. Coleman, Esq., Solicitor, 14 Bell Yard, Temple Bar, W.C.

FOR Sale, at once, good Dispensing Business in fashionable health resort; returns nearly £800; over 6,000 prescriptions dispensed yearly; few patents, and no heavy goods; retiring from business. Apply, "Aurantii," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

GOOD-CLASS London suburb; unopposed Light Retail and Dispensing Business; returns nearly £1,000, good prices obtained; net rent £20, including good house; valuable lease; price £750; owner retiring. "Acetum," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£350 Cash.—Good Retail Business, W. district; lock-up shop with parlour; suit good Prescriber, or as Surgeon's Retail; returns between £400 and £500, can be very much increased; good profits; few patents. "Maranta," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street. E.C.

£150 for nicely-fitted and well-stocked Chemist's shop; no opposition; main road, S.W. district; convenient house, newly decorated; takings £200, could be greatly increased by small capital; rent £32, £22 let off; satisfactory reasons for selling. 230/38, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FIRST-CLASS Dispensing and Retail Business for Disposal; owner retiring; situated in healthy neighbourhood, within 10 miles of town; it occupies an exceptional and unopposed position; net profits £450; good house, handsome shop; price £1,150. "Zinci," Office of THE CHEMIST AND DRUGGIST. 42 Cannon Street, E.C.

GOOD Prescribing and Retail; garrison town, Kent; doing £350 at large profits, under female management, only wants qualified man to much increase; valuation required only, as immediate sale is imperative; about £80; a windfall for a beginner; absolutely genuine. "Benefactor," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£250.—Birmingham.—Genuine ready-money Business for Disposal; established 40 years; capital position in busy thoroughfare; returns £450, increasing; good house, low rent; splendid opening for Dentistry to capable and energetic man; proofs given; illness sole cause of leaving. "Tenax," c/o Wyley & Co., Birmingham.

DRUGGISTS' Sundries.—The Exors. of late George Scriven, Brierley Hill, are prepared to open negotiations for Disposal, as a going concern, of Medical Glass and Sundries Business and Goodwill; established 1856; only about £2,000 capital required. Apply, by letter in first instance, to G. Scriven, Chartered Accountant, Victoria Street, Nottingham.

SOUTH COAST.—First-class Retail and Dispensing Business; splendid position, residential suburb of fashionable seaside resort; receipts about £600, capable of large increase in energetic hands; net profit £200; stock and fixtures worth £500; price £550, or reasonable offer; part can remain. "Pepsinum," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£85. £20 of which may be paid off at 5 per cent.; corner position; a genuine little Retail and Dispensing in busy Birmingham suburb; neatly fitted; no Stores near; a good opening for Prescriber and Extractor; tram stops opposite door; returns £5 to £6 under indifferent management; rent 13s. 6d. weekly (inclusive); good house. Particulars, W. H., 53 Wednesbury Road, Walsall.

DRUG Companies or Chemists.—To be Sold, nucleus of Prescribing, Tooth-extracting. General Retail, with Dentistry; no heavy trade; no patents; very profitable; no reasonable offer refused; vendor leaving Lancashire for warmer climate owing to illness; populous neighbourhood; 2,000 workpeople pass shop-door daily. Price, Chemist-Dentist, Daubhill, Bolton, Lancs. N.B.—Will Drug Company who made a bid correspond again?

WEST RIDING.—Suburbs of large manufacturing town, Light Retail, Prescribing. Dispensing and General Mixed Business for disposal; returns over £1,000, increasing yearly; rent £32, rates extra; shop well fitted; busy thoroughfare; unlimited scope for increase; splendid opening for Dentistry; everything in a prosperous condition; proprietor retiring; price £800. 229/5, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

GOOD Dispensing, Prescribing, and Family Retail; business established over 20 years; corner position, main thoroughfare, centre of populous and growing suburban parish; shop well fitted and stocked, several valuable proprietaries; profitable returns; house large, convenient, conservatory, held on long lease at moderate rental. 229/9, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BUSINESSES WANTED.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

£30 Cash down, and Balance by instalments; a small Retail in London; stock of little consequence; the advertiser prefers new drugs and chemicals. State present returns and particulars, to "Druggist," 81 Bravington Road, London, W.

WANTED, a good-class Business (Dispensing, Prescribing, and Midlands preferred) returning £1,000 to £1,500; the vendor of genuine concern will find this an opportunity to find a bona-fide, rapid and cash purchaser. "Honour," Messrs. Barron Harveys, Giltspur Street, London.

SITUATIONS OPEN.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

WANTED, an active Junior Assistant. Anthony & Co., Chemists, Cardiff.

WANTED, in fortnight's time, qualified Chemist under 30; Store trade. L., 116 High Street, Whitechapel.

WANTED, an Improver or Turnover, in good-class Dispensing business. Apply, Allen & Lloyd, 59 High Street, Aldershot.

JUNIOR or Improver in good-class Country business. Apply, stating age, height, and salary required, enclosing carte, to H. Hitchman & Son, Chemists, Kettering.

WANTED, Improver or Junior (18 to 20), indoors, for Light Retail Country business; no paints or heavy trade. Full particulars to Palmer, Chemist, Saxmundham.

WANTED, a Welsh-speaking Assistant, about 25; active, and used to Mixed Country trade. Apply, stating salary and usual particulars, to Richards, Chemist, Porth.

A JUNIOR Assistant; qualified preferred; reliable Dispenser and accustomed to high-class business; good reference essential. Apply to Freshfield Reynolds, Harrogate.

WANTED, by May 10, an Assistant. Apply, stating age, height, salary, reference, &c., with photo (to be returned), to J. G. Sangster, Pharmaceutical Chemist, Southsea.

A LIGHT Porter; must be quick, intelligent, and accustomed to the routine of a Chemist's shop. Apply at J. M. Davis & Sons', 7 and 8 Prince's Buildings, Coventry Street, Piccadilly, W.

MANAGER for Branch; good-class business; married; age 26 to 30; must be qualified. Apply, giving particulars as to experience, salary, &c., "Chemist," 47 Perry Hill, Catford, S.E.

WANTED, immediately, a Senior Assistant, qualified, aged from 26 to 40; Tooth-extractor preferred. Apply (personally if possible), 53 Great Marylebone Street, Portland Place, London, W.

IMMEDIATELY, an outdoor Assistant, as Counterman in a brisk ready-money business. Apply, with photo, stating age, height, and experience, to E. J. Kitson, The City Drug-stores, Worcester.

ASSISTANT; age about 24; one accustomed to high-class Retail and Dispensing; one only kept. Apply, stating full particulars, age, height, and salary expected, to J. Miller, 4 Victoria Road, Brighton.

SEASIDE, for a few months; qualified; outdoors; tall; good Counterman; knowledge of Photographic trade. Particulars of experience, when disengaged, age, and salary to Harvey, the Central Pharmacy, Margate.

GELATINE Capsules, Capsuled Horse-balls, Gelatine-coated Pills.—Man wanted, accustomed to the Manufacture of these. Apply, with full particulars as to experience and salary required, Bleasdale (Limited), York.

WANTED, Branch Manager (qualified), single, and able to Extract Teeth; must be well recommended, and have a good general knowledge of the business. C.d.v., if convenient, to G. Woolley, Chemist, Leicester.

SENIOR Assistant required immediately; must be qualified, steady, of good address, and accustomed to quick, modern trading. Photo and particulars, stating salary required (outdoors), to Mr. W. V. Wright, Broadway, Hammersmith, W.

ASSISTANT wanted (indoors) for Light Retail and Dispensing; one with a knowledge of Photography preferred. Applications unanswered in three days considered declined. Apply, with full particulars, to Jarvis, Handsworth, Birmingham.

A JUNIOR Assistant, accustomed to high-class Dispensing business: aged about 22; thoroughly steady; abstainer; 2 kept. Address, with full particulars, age, height, salary required, and references, enclosing photo, to Mr. Vizer, 154 Marine Parade, Brighton.

IMMEDIATELY, a thoroughly reliable, energetic Junior, willing to make himself generally useful, and capable of taking charge of a shipping branch when required; must be a good writer, and understand Agricultural business. Apply, Curtis & Co., Manufacturing, Dispensing, and Agricultural Chemists, Apothecaries' Hall, Gloucester. Established 100 years.

SITUATIONS WANTED—Cont.

JUNIOR; time for study; Loudon or suburb. W. B., 246 Regent Street, W.

LOCUM-TENENS; aged 28; disengaged; Extractor. 2 Horton Street, Lewisham, London, S.E.

ASSISTANT; outdoors; 25; excellent experience and reference. Evans, 56 Waterford Road, S.W.

LOCUM or Manager by an M.P.S.; West-end experience. P. S., 52 Hazlewood Crescent, Westbourne Park, W.

MANAGER of small Branch or as Assistant with time for study; experienced. Jones, 69 Gloucester Road, N.W.

LOCUM-TENENS; disengaged; aged 34; qualified; town or country. Apply, "Chemist," 6 Courcy Road, Green Lanes, N.

AS Assistant; aged 28; competent Dispenser or Counterman; London. "Extractor," 69 Church Road, Canonbury.

PART-TIME, immediately, until 4 P.M.; outdoors. 233/34, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

ASSISTANT; unqualified; 7 years' good Retail experience; aged 22; excellent references. E. C., 38 Crofton Road, Peckham, S.E.

REPRESENTATION wanted by Gentleman for a good house, on commission; London, suburbs. G., 33E Middleton Road, Dalston.

COUNTRY Branch or Assistant; outdoors; varied experience, and Prescriber, Extractor; disengaged. "Chemist," Banbury Villa, Putney.

EMPLOYMENT, permanent or temporary; references; well up; good Dispenser. 232/36, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

DISPENSER, Bookkeeper; accurate; thoroughly experienced in Medical routine; management of Branch not objected to. C. B., 91 Approach Road, E.

TRAVELLER (Drugs); good connection West of England, North, and Midlands; highest references. 225/17, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

MANAGER or Senior: qualified: would not object to travel part time; outdoors; aged 35. 228/21, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

AS Traveller, Drugs, or Allied Trades; aged 30; married; 12 years' experience; unexceptionable references. 225/13, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

MANAGER, with view to succession; good Dispensing experience; aged 29; qualified; disengaged. "Salol," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

ASSISTANT (unqualified) or Manager of Mixed business; country preferred; aged 27; 10 years' experience; excellent references. H. H. L., 69 St. Ann's Street, Salisbury.

ASSISTANT (Junior) in good-class Dispensing business; London preferred; good experience; highest references. "Exalgin," Clovelly House, Florence Road, Brighton.

WANTED, Full or part time, with medical man preferred, but not essential; quick and accurate Dispenser; excellent references. Address, J. P., 7 Constantine Road, Hampstead, N.W.

LOCUM or Manager; disengaged April 30; qualified; good reference; thoroughly experienced: Photography, &c.; town or country. "Minor," Manor Farm, Bishop Sutton, Alresford, Hants.

MANAGER; 11 years' experience; aged 27; height 5 ft. 9 in.; gentlemanly; qualified; highest references. "Heliotrope," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

ARE YOU going for a holiday this year?—A Chemist's son, Minor, undertakes Locum work; vacant dates after June 27. "Alert," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

SOUTH AFRICA.—Assistant, 21, seeks situation, Mixed Retail establishment, next July; 4 years' experience. Address, 228/33, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

QUALIFIED Chemist; experienced in all branches of the Store trade; first-class testimonials; good Prescriber and Salesman; outdoors; London or suburbs. M., 27 Disraeli Road, Putney.

TRAVELLER (Town); well-established connection; thorough knowledge Drugs and Sundries; reference and security; abstainer. 233/30, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

STORE Chemists.—Wanted, situation in quick business; good salesman, London experience; married; unqualified; thorough knowledge of Photography. 228/34, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

ENGLISH Assistant desires a situation (Continental) for the summer; free after May 20; has had over 7 years' English and 6 months' good Continental experience; tall; aged 24; qualified; good references. G. Bernard, 64 Via Condotti, Rome, Italy.

TRAVELLER.—Young and energetic man seeks engagement as above to represent Drug and Photographic house; also specialities; has had 11 years' experience; acquainted with England, Scotland, and Ireland. Apply, "Vox," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

TRAVELLER.—Gentleman, representing first-class house (Pharmaceutical products), and having good connection in Southern Counties amongst Doctors and Chemists, is open to treat with another firm whose interests would not clash with present house. "Rhei," Morris's Library, Dunsmure Road, N.

MISCELLANEOUS.

WHAT offers for Twenty-five Fully-paid £1 Shares in The Chemists' Association (Limited)? Mr. W. Hart, Chartered Accountant, Derby.

HIGHEST offer wanted for 6 Dental Company £5 Shares, £27 paid, together with two last Dividends—viz., £1 6s. 3d. and £1 6s. 1d. 227/21, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

AN experienced Toilet Soap Maker wishes to form a Syndicate for the manufacture of Milled and other Toilet Soaps, and would be glad to hear from Chemists willing to form same. Apply, 37/19, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

TO CHEMISTS AND DRUGGISTS.—The Mouilla Liquid Soap Company are prepared to appoint one leading Chemist and Druggist in every provincial town as exclusive Special Direct Agents for their Mouilla Liquid Toilet Soap; exceptionally liberal terms offered. Address, Mouilla Liquid Soap Company (Limited), 6 Adam Street, Adelphi, London.

RARE Opportunity.—Two valuable well-established Proprietary Medicines to be disposed of at very low figure:—1. Exceptionally wonderful aperient Blood Purifier, well-known, neither pills nor liquid, for £160. 2. The only Lung Brain and Flesh Food containing over 40 per cent. Cod-liver Oil in solution in Malt Extract; palatable; a marvel against wasting diseases; £250. Apply, Marsland, 10 Grafton Street, Manchester.

WALL-FIXTURE, 12 ft. long by 9 ft. high, containing 60 mahogany drawers, with gold labels and glass knobs, polished-pine lockers below and shelving above, surmounted by neat cornice, £16; 5-ft. mahogany bent-glass counter-case, velvet lined, with display back and serving-tray, £5; high-class dispensing-screen, mahogany and plate-glass, bevelled-edge mirrors, highly ornamental, only £9; estimates free. Matthews, 14 Manchester Street, Liverpool.

ANY reasonable offer, or a third of the cost price, will buy Wall Fixtures (solid mahogany), two sides, containing Poison-cupboard and 106 Drawers (glass knobs and labels), Shelving above, and neat Cornice; each side contains Wall-case (mirror-fronted), large Wall-case, 2 Counter-cases, Bottles (gold-labelled), Jars, &c.; 2 Counters, fitted with drawers; also Stock, outside Lamp. 230/35, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

CHEMISTS.—Twelve-foot range of sixty mahogany-fronted drawers, glass knobs, glass labels, own lettering, £7 5s.; if lockers, shelves, cornice, complete, £12 5s. Six-foot bent plate-glass counter-case, mirror backs, display shelves, &c., 92s. 6d. Handsome mahogany 6-ft. dispensing screen, mirror centre, show case each side, mounted with carved work and marble slab, £6 5s. Upright cases, with mahogany desks at back, 45s. Pink ointment jars, shop rounds. Estimates free. Mills, shop-fitter, show-case manufacturers, 203 City Road, London, E.C.

FOR Sale.—180 secondhand rounds, gold labelled, £5 15s.; 12 ft. range ditto, polished pine drawers, gold labelled, lockers, shelving, and cornice, £7 10s.; 6 ft. mahogany-top counter, with 10 drawers, 50s.; 6 ft. ditto, pine top, 46s.; 5 ft. upright dispensing case, 70s.; 2 ft. ditto, and desk, 40s.; 11 ft. wall case, part mahogany, £9; 4 4-gall. carboys, 44s.; 36 2-lb. and ½-lb. pink jars, labelled, secondhand, 42s.; 8 ft. secondhand window enclosure, mirror back, £5; 2 and 6 gall. carboys, 28s.; pair handsome specie-jars, secondhand, 32 inches high, with stand, £5. R. Tomlinson & Sons, Medical Fitters, Bond Street, Birmingham.

TO BE SOLD IMMEDIATELY.—The complete fittings of 6 high-class Chemist Shops, comprising ranges of solid mahogany-fronted drawers, fitted with crystal cut knobs and bevelled edge labels, the bottom part fitted with panelled lockers and the above with mahogany-fronted shelving and cornice complete; 6 Spanish mahogany dispensing screens with bevelled and embossed mirror in centre, some have sponge cases at bottom; a large assortment of mahogany and plate-glass fronted counters, fitted with numerous drawers at back; bent-glass counter cases, wall cases, sponge cases, desks, window enclosures, and every fitting appertaining to the trade. We have a large assortment of new fittings in stock, all the latest designs. We fit up shops complete from £50. Most practical men sent to all parts of the country. Write for references, Edwards & Co., Chemist Fitters, 19 and 20 Old Haymarket, Liverpool.

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